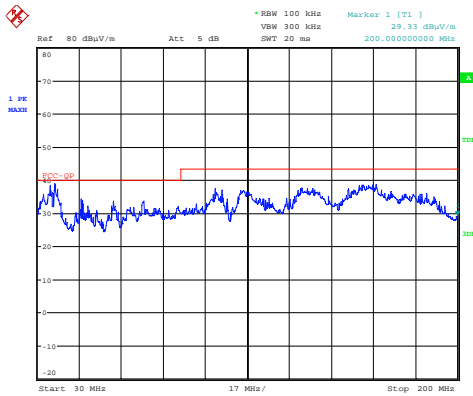
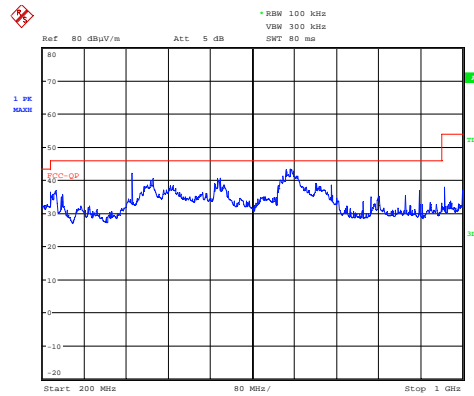


Modulation: 802.11ac VHT20 – 5720 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5958.7	60.5	9.9	34.4	34.5	-9.5	60.8	1096.5	2582.3
PK	6198.1	49.6	10.3	34.9	34.5	-9.5	50.7	342.8	2582.3
PK	7626.8	52.5	11.7	36.9	34.9	-9.5	56.7	683.9	5000.0
AV	7626.8	47.8	11.7	36.9	34.9	-9.5	52.0	398.1	500.0



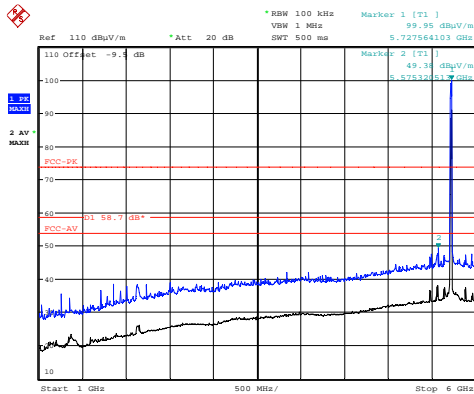
Date: 11.MAY.2016 10:35:35

30 MHz – 200 MHz



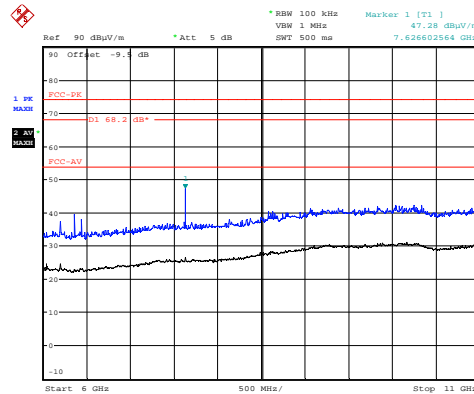
Date: 10.MAY.2016 16:06:37

200 MHz – 1 GHz



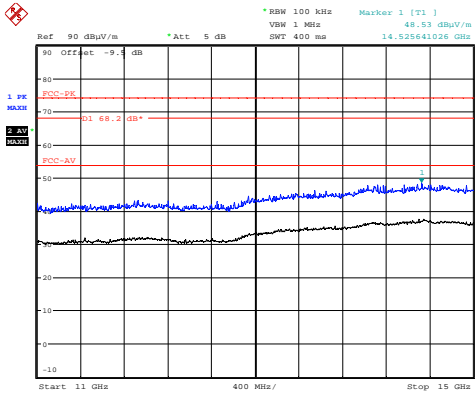
Date: 6.MAY.2016 11:29:17

1 GHz – 6 GHz



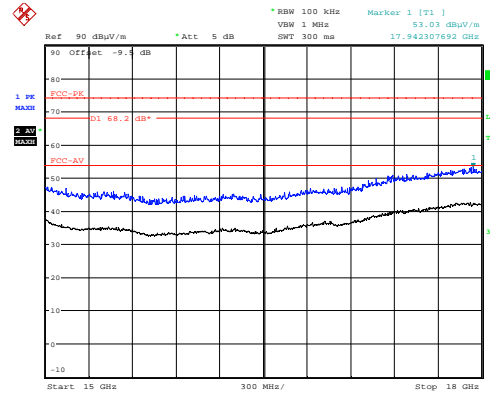
Date: 6.MAY.2016 11:35:42

6 GHz – 11 GHz



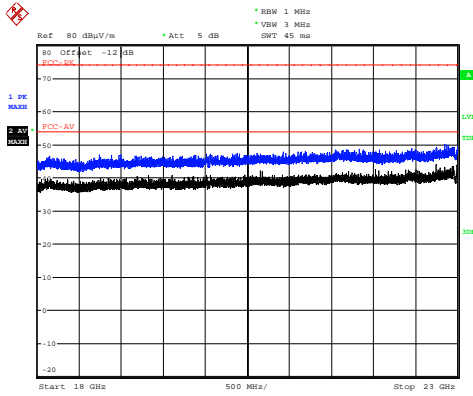
Date: 6.MAY.2016 11:33:51

11 GHz – 15 GHz



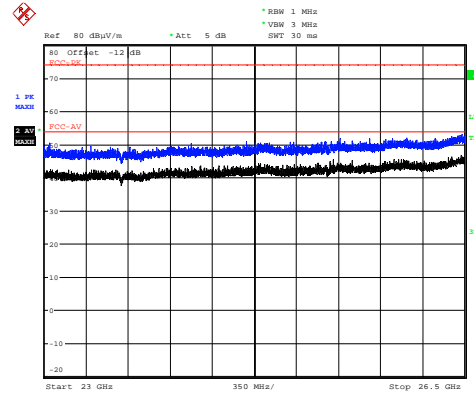
Date: 6.MAY.2016 11:31:31

15 GHz – 18 GHz



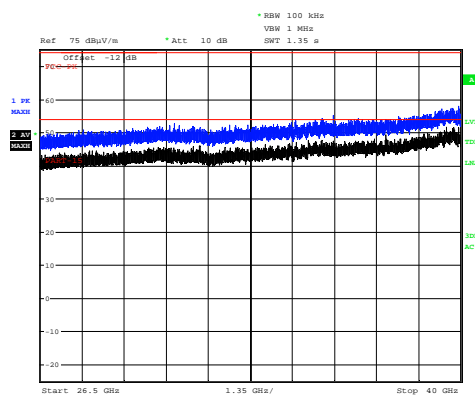
Date: 10.MAY.2016 09:52:08

18 GHz – 23 GHz



Date: 10.MAY.2016 10:13:44

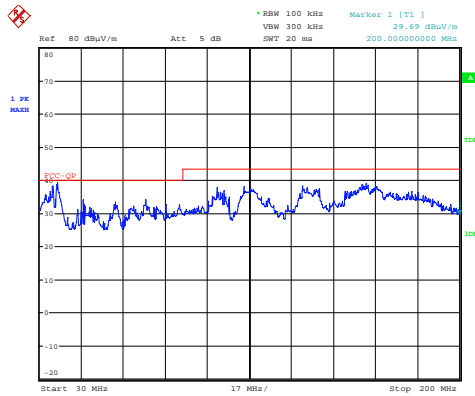
23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:12:10

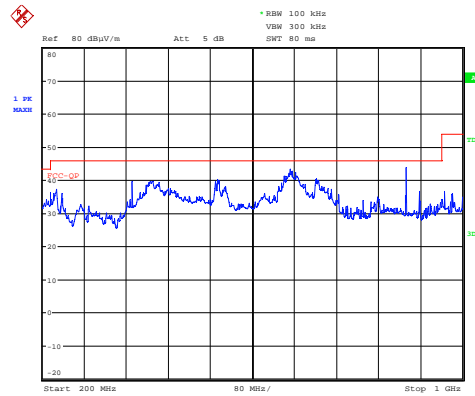
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT20 – 5745 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5511.5	62.1	9.5	34.4	34.5	-9.5	62.0	1258.9	2582.3
PK	5993.3	62.4	9.9	34.5	34.5	-9.5	62.7	1364.6	2582.3
PK	6229.8	54.0	10.3	34.8	34.6	-9.5	55.1	568.9	2582.3
PK	7660.2	52.9	11.9	36.8	34.9	-9.5	57.2	724.4	5000.0
AV	7660.2	48.4	11.9	36.8	34.9	-9.5	52.7	431.5	500.0
PK	11490.6	57.0	14.4	38.8	34.8	-9.5	65.9	1972.4	5000.0
AV	11490.6	44.3	14.4	38.8	34.8	-9.5	53.2	457.1	500.0



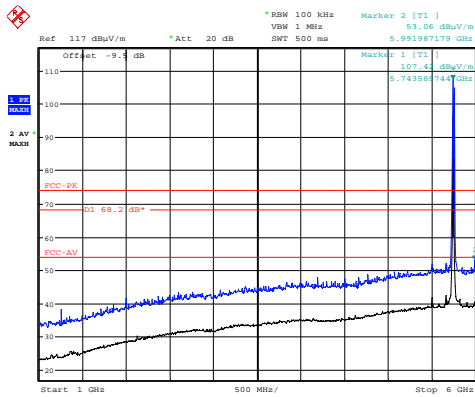
Date: 11.MAY.2016 10:37:34

30 MHz – 200 MHz



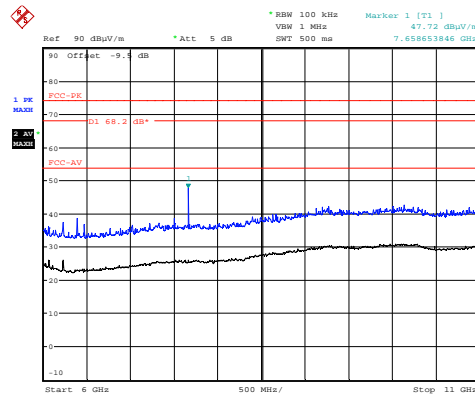
Date: 10.MAY.2016 16:08:53

200 MHz – 1 GHz



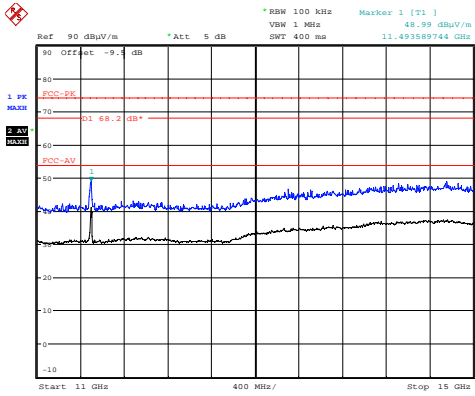
Date: 8.MAY.2016 11:37:34

1 GHz – 6 GHz



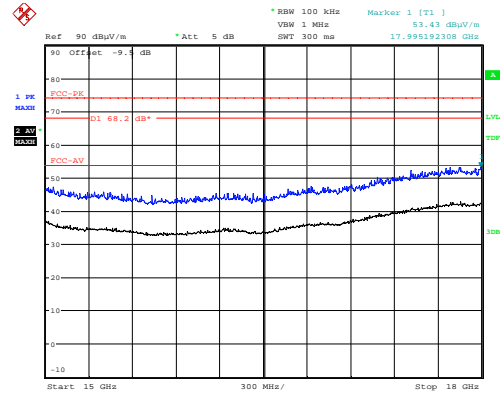
Date: 8.MAY.2016 11:33:30

6 GHz – 11 GHz



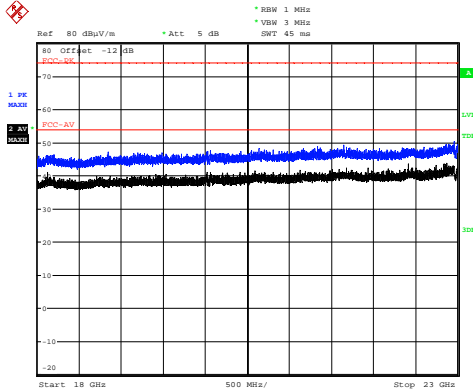
Date: 8.MAY.2016 11:34:49

11 GHz – 15 GHz



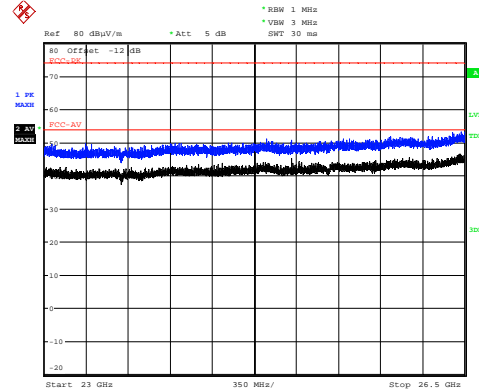
Date: 8.MAY.2016 11:39:45

15 GHz – 18 GHz



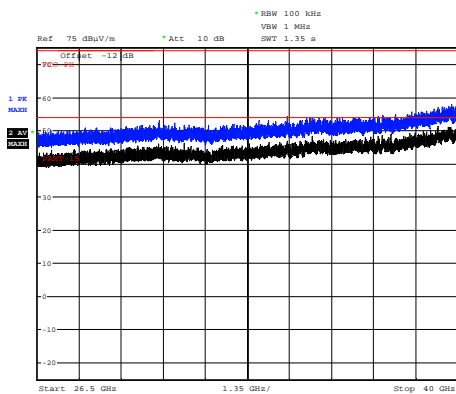
Date: 10.MAY.2016 09:55:58

18 GHz – 23 GHz



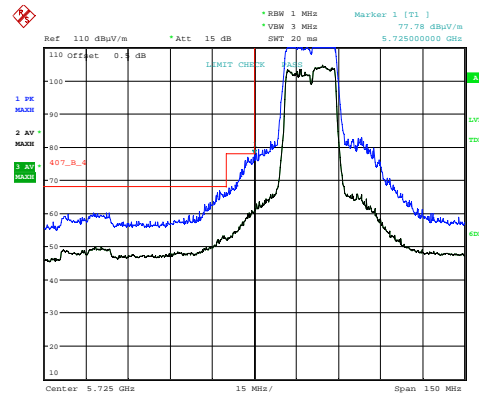
Date: 10.MAY.2016 10:10:57

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:14:31

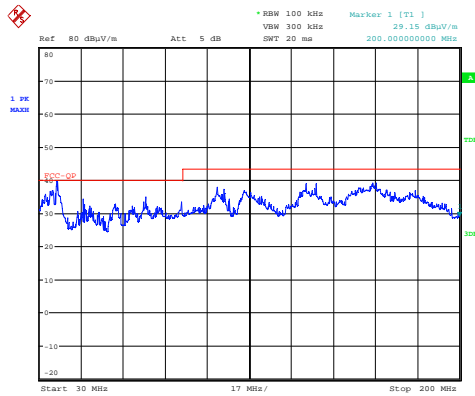
26.5 GHz – 40 GHz



Date: 24.APR.2016 16:26:55

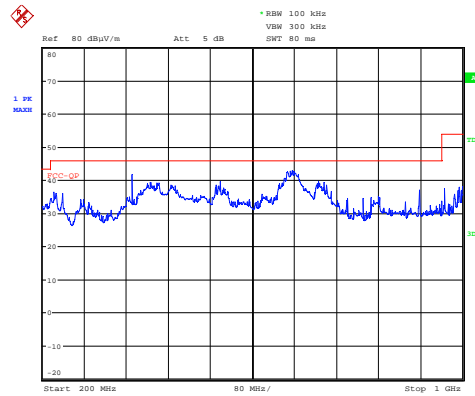
Bandedge

Modulation: 802.11ac VHT20 – 5785 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5537.5	58.4	9.5	34.4	34.5	-9.5	58.3	822.2	2582.3
PK	6030.8	60.5	10.0	34.6	34.5	-9.5	61.1	1135.0	2582.3
PK	6267.3	54.3	10.3	34.7	34.6	-9.5	55.3	582.1	2582.3
PK	7713.4	53.7	12.0	36.8	34.9	-9.5	58.1	803.5	5000.0
AV	7713.4	49.2	12.0	36.8	34.9	-9.5	53.6	478.6	500.0
PK	11569.9	58.0	14.3	39.0	34.8	-9.5	66.9	2213.1	5000.0
AV	11569.9	44.5	14.3	39.0	34.8	-9.5	53.5	473.2	500.0



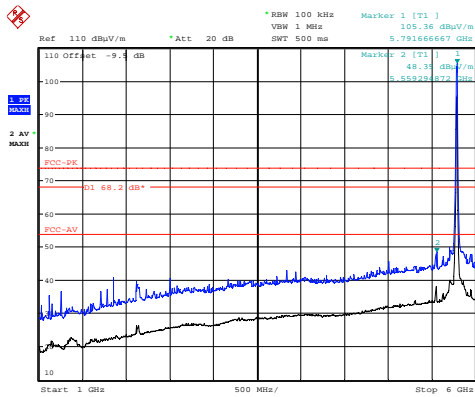
Date: 11.MAY.2016 10:39:38

30 MHz – 200 MHz



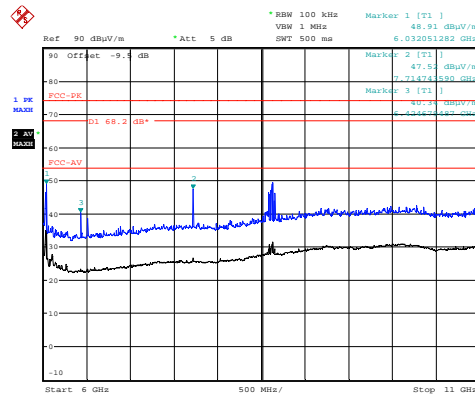
Date: 10.MAY.2016 16:11:09

200 MHz – 1 GHz



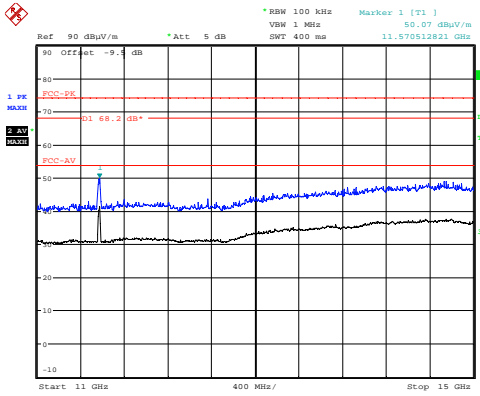
Date: 8.MAY.2016 11:52:37

1 GHz – 6 GHz



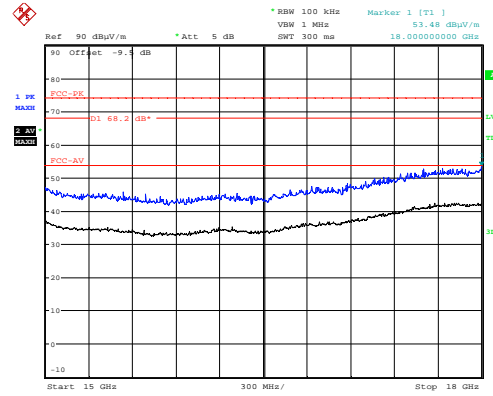
Date: 8.MAY.2016 11:48:08

6 GHz – 11 GHz



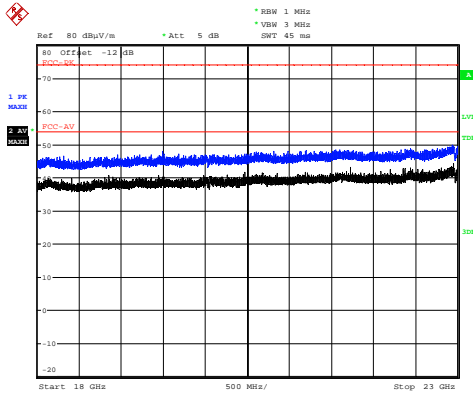
Date: 8.MAY.2016 11:45:07

11 GHz – 15 GHz



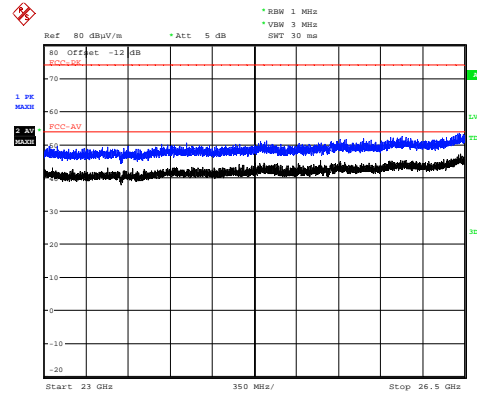
Date: 8.MAY.2016 11:42:42

15 GHz – 18 GHz



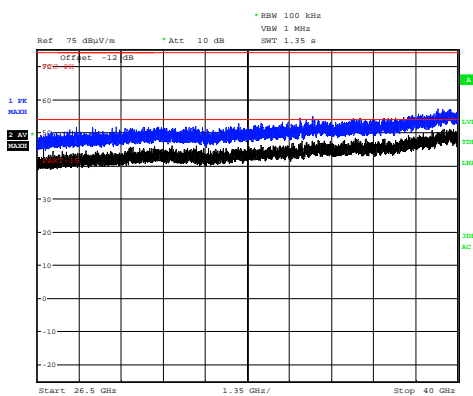
Date: 10.MAY.2016 10:00:46

18 GHz – 23 GHz



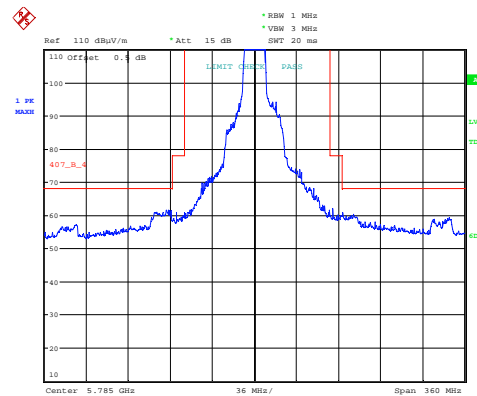
Date: 10.MAY.2016 10:08:33

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:16:44

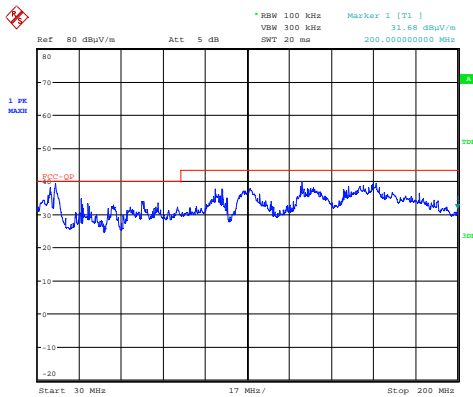
26.5 GHz – 40 GHz



Date: 24.APR.2016 16:41:43

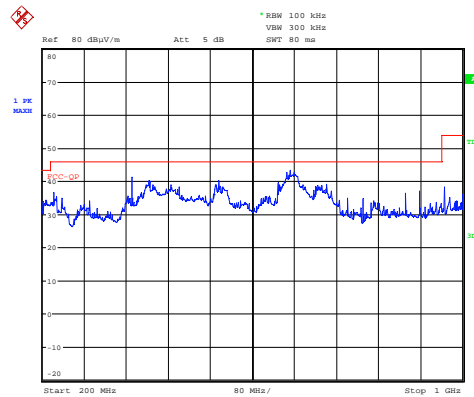
Bandedge

Modulation: 802.11ac VHT20 – 5825 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5589.4	60.4	9.5	34.3	34.5	-9.5	60.3	1035.1	2582.3
PK	6068.3	59.3	10.2	34.7	34.5	-9.5	60.2	1023.3	2582.3
PK	7766.8	54.0	12.0	36.8	34.9	-9.5	58.4	831.8	2582.3
PK	11650.3	57.6	14.6	39.2	34.8	-9.5	67.1	2264.6	5000.0
AV	11650.3	44.1	14.6	39.2	34.8	-9.5	53.6	478.6	500.0



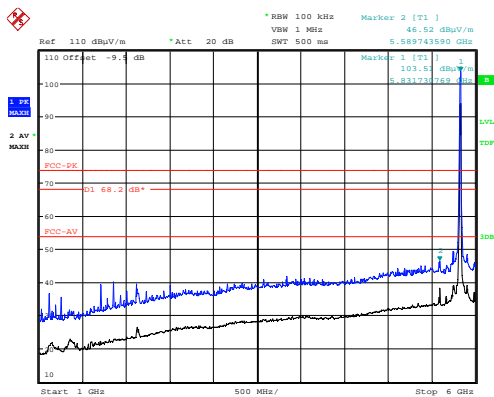
Date: 11.MAY.2016 10:42:10

30 MHz – 200 MHz



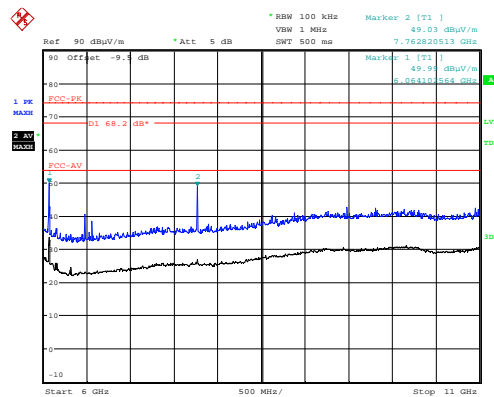
Date: 10.MAY.2016 16:14:13

200 MHz – 1 GHz



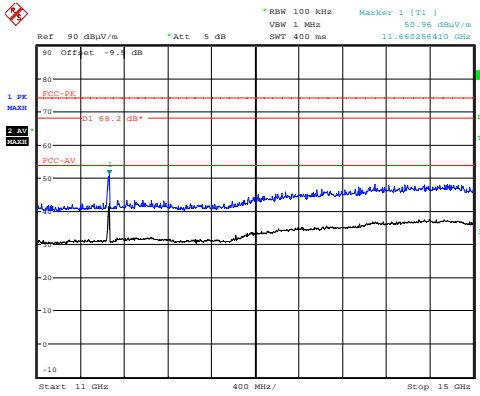
Date: 8.MAY.2016 12:00:24

1 GHz – 6 GHz



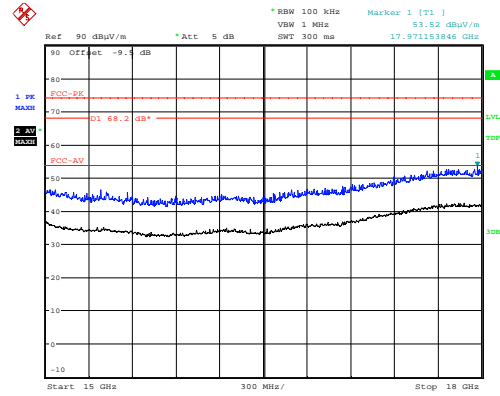
Date: 8.MAY.2016 12:01:58

6 GHz – 11 GHz



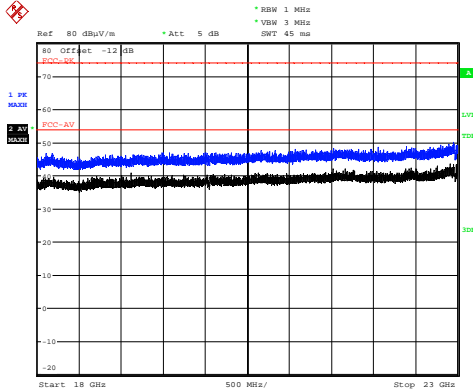
Date: 8.MAY.2016 12:03:37

11 GHz – 15 GHz



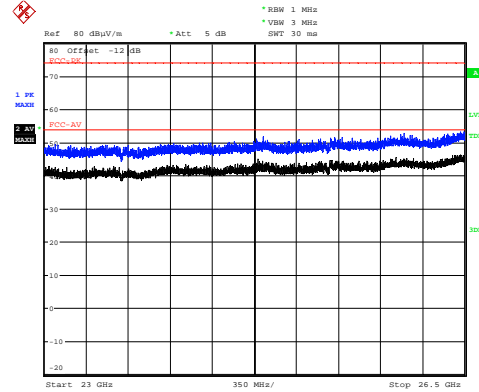
Date: 8.MAY.2016 12:06:36

15 GHz – 18 GHz



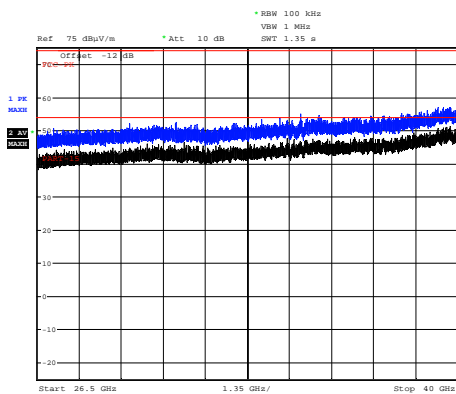
Date: 10.MAY.2016 10:03:33

18 GHz – 23 GHz



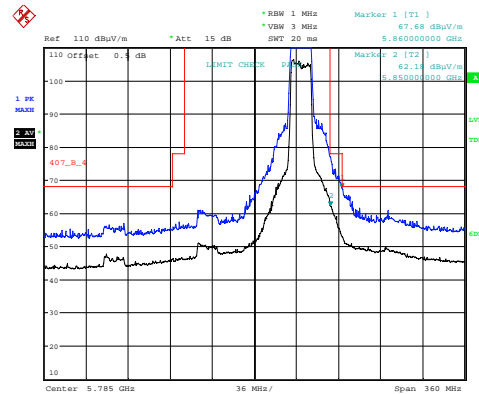
Date: 10.MAY.2016 10:05:28

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:38:29

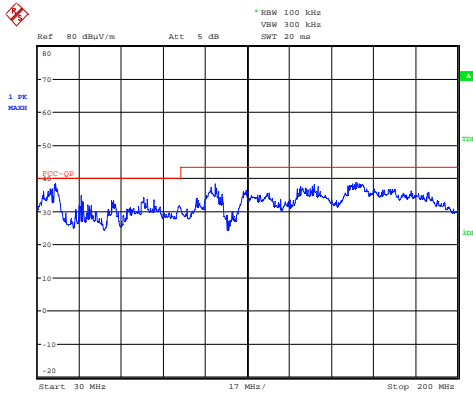
26.5 GHz – 40 GHz



Date: 24.APR.2016 16:55:26

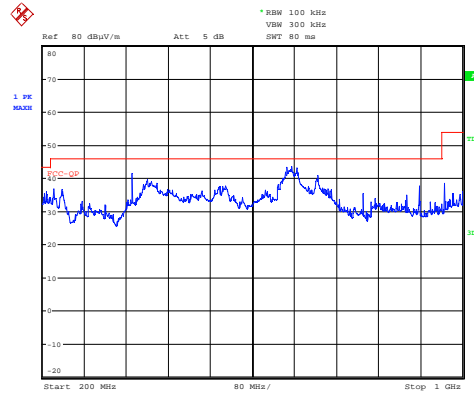
Bandedge

Modulation: 802.11ac VHT40 – 5190 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5621.2	49.4	9.6	34.3	34.5	-9.5	49.3	291.7	2582.3
PK	5765.4	53.2	9.7	34.1	34.5	-9.5	53.0	446.7	2582.3
PK	6922.1	50.2	10.8	35.8	34.7	-9.5	52.6	426.6	2582.3



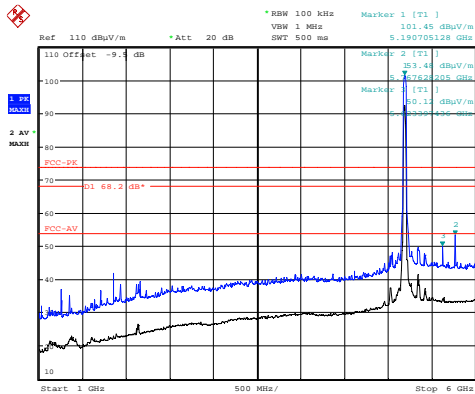
Date: 11.MAY.2016 11:14:02

30 MHz – 200 MHz



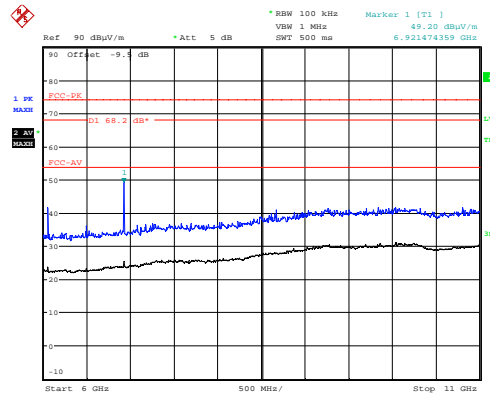
Date: 10.MAY.2016 16:23:27

200 MHz – 1 GHz



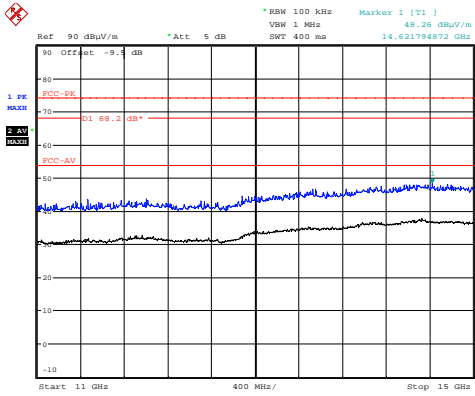
Date: 6.MAY.2016 11:50:14

1 GHz – 6 GHz



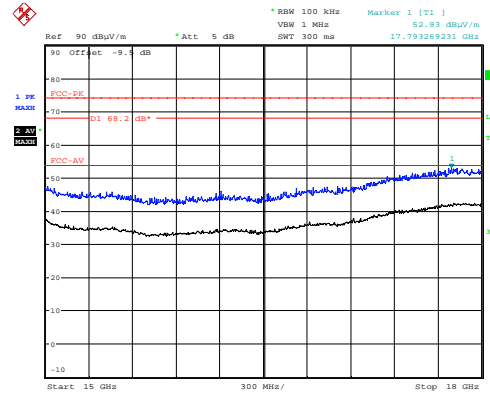
Date: 6.MAY.2016 11:53:02

6 GHz – 11 GHz



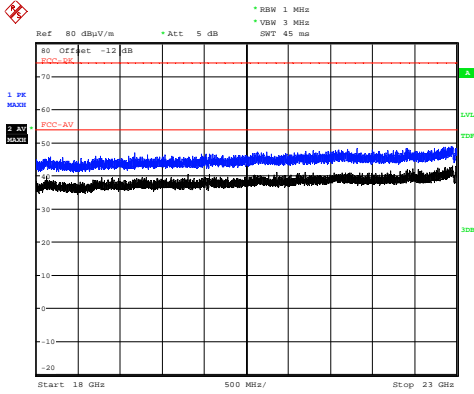
Date: 6.MAY.2016 11:54:10

11 GHz – 15 GHz



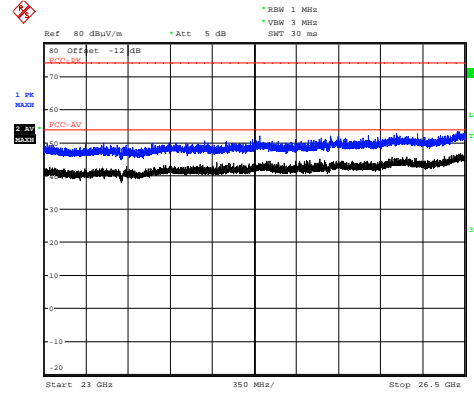
Date: 6.MAY.2016 11:56:29

15 GHz – 18 GHz



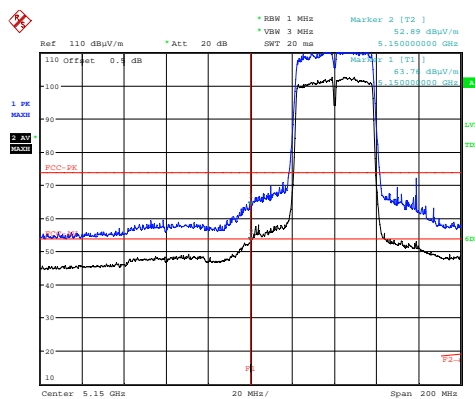
Date: 10.MAY.2016 11:05:46

18 GHz – 23 GHz



Date: 10.MAY.2016 10:36:33

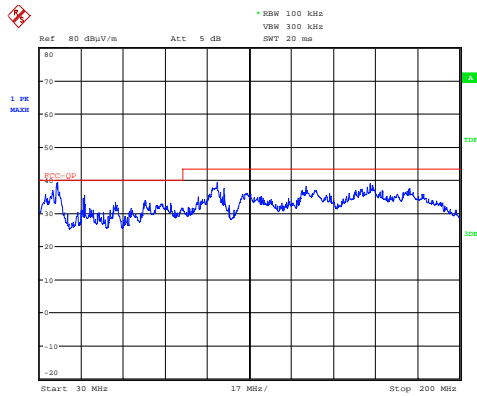
23 GHz – 26.5 GHz



Date: 24.APR.2016 12:08:36

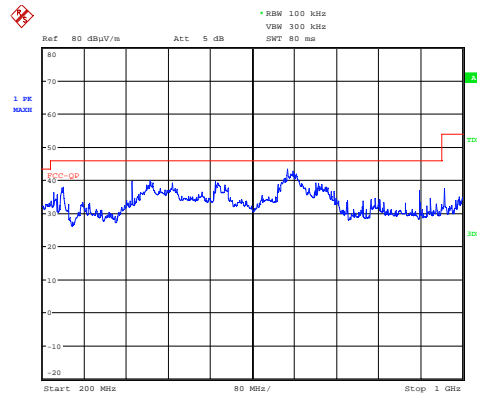
Bandedge

Modulation: 802.11ac VHT40 – 5270 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5502.9	55.2	9.5	34.4	34.5	-9.5	55.2	575.4	2582.3
PK	5707.7	52.6	9.7	34.2	34.5	-9.5	52.6	426.6	2582.3
PK	5854.8	52.2	9.7	34.1	34.5	-9.5	52.0	398.1	2582.3
PK	7028.9	50.2	11.0	36.0	34.7	-9.5	53.0	446.7	2582.3



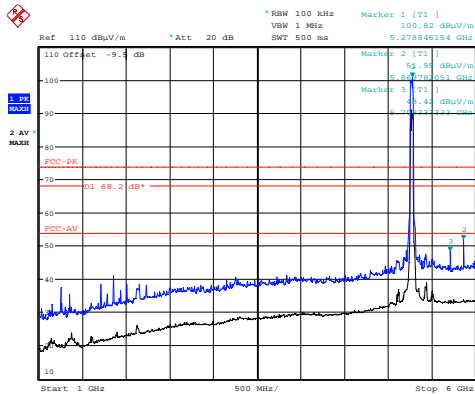
Date: 11.MAY.2016 11:17:13

30 MHz – 200 MHz



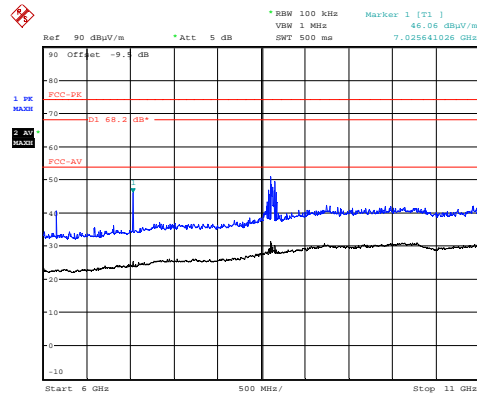
Date: 10.MAY.2016 16:25:55

200 MHz – 1 GHz



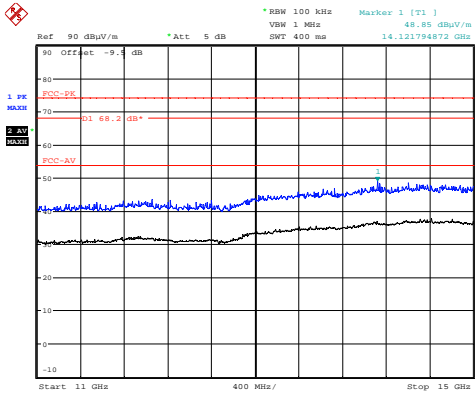
Date: 6.MAY.2016 12:04:34

1 GHz – 6 GHz



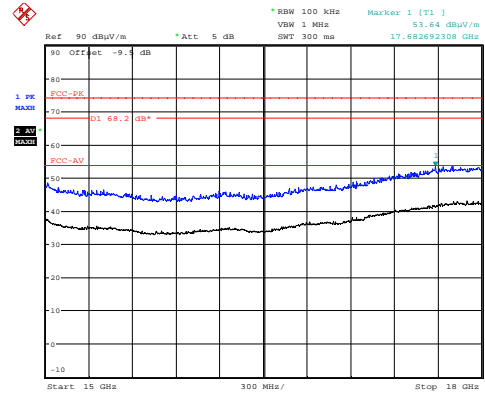
Date: 6.MAY.2016 12:07:02

6 GHz – 11 GHz



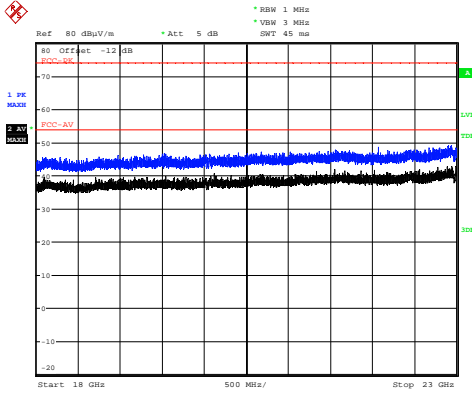
Date: 6.MAY.2016 12:08:23

11 GHz – 15 GHz



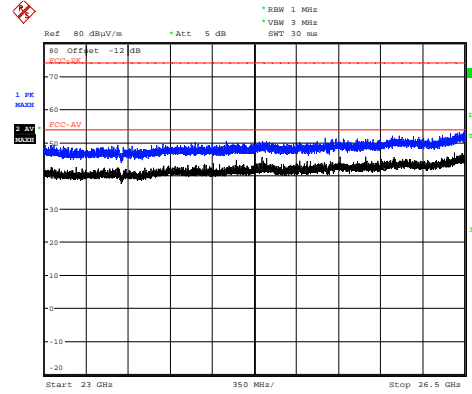
Date: 6.MAY.2016 12:02:51

15 GHz – 18 GHz



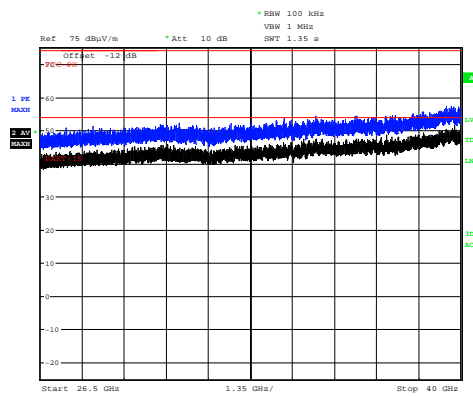
Date: 10.MAY.2016 11:04:14

18 GHz – 23 GHz



Date: 10.MAY.2016 10:39:06

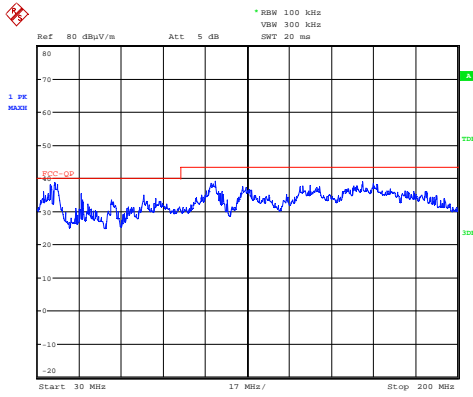
23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:41:42

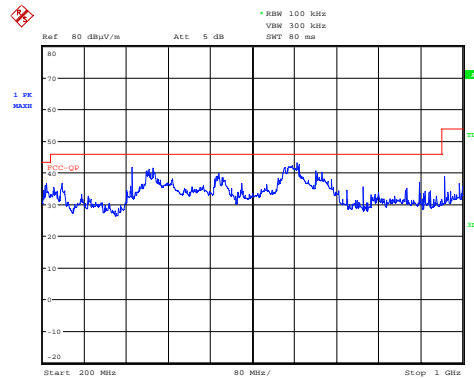
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT40 – 5310 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5476.9	58.2	9.5	34.4	34.5	-9.5	58.1	803.5	2582.3
PK	5751.0	52.8	9.7	34.1	34.5	-9.5	52.6	426.6	2582.3
PK	5901.0	54.9	9.7	34.2	34.5	-9.5	54.8	549.5	2582.3



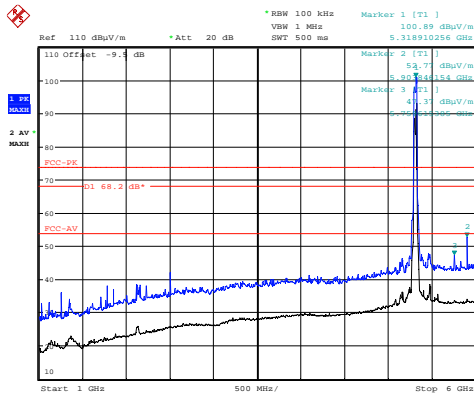
Date: 11.MAY.2016 11:22:02

30 MHz – 200 MHz



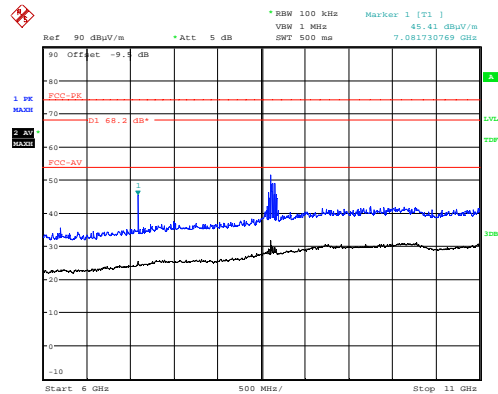
Date: 10.MAY.2016 16:28:31

200 MHz – 1 GHz



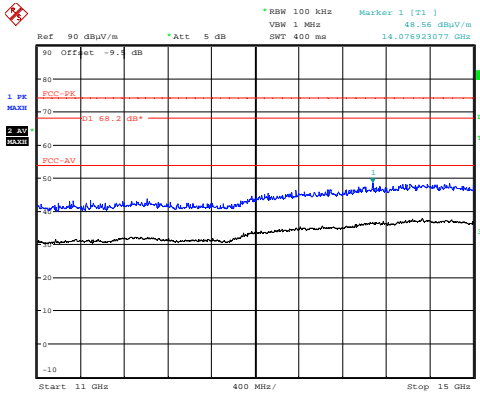
Date: 6.MAY.2016 12:16:41

1 GHz – 6 GHz



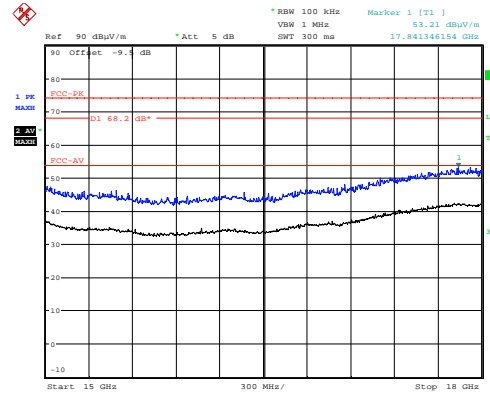
Date: 6.MAY.2016 12:11:08

6 GHz – 11 GHz



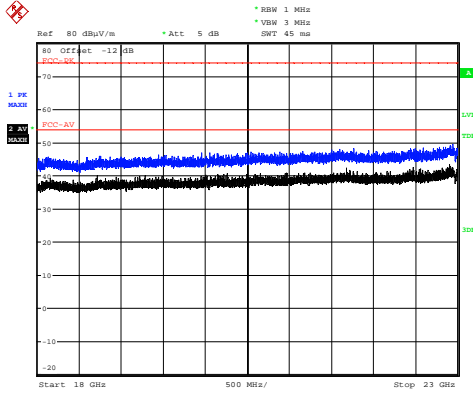
Date: 6.MAY.2016 12:13:20

11 GHz – 15 GHz



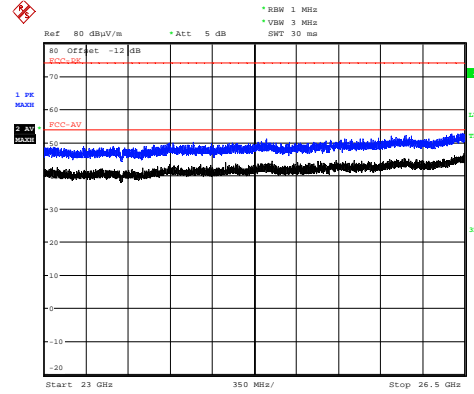
Date: 6.MAY.2016 12:15:08

15 GHz – 18 GHz



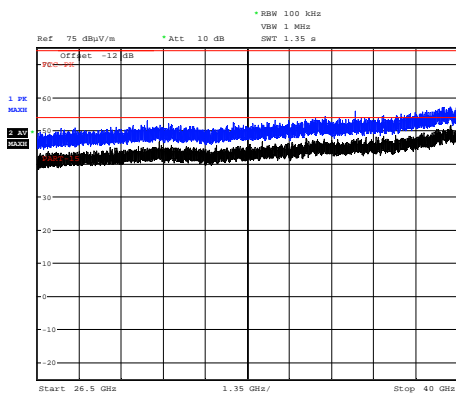
Date: 10.MAY.2016 11:02:42

18 GHz – 23 GHz



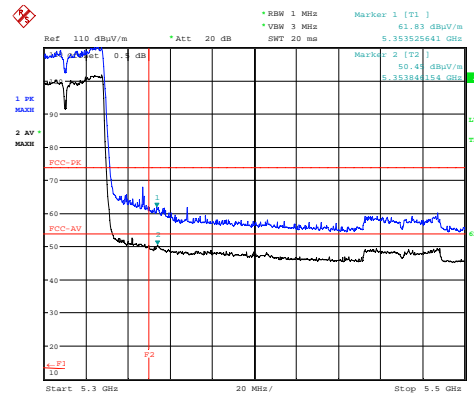
Date: 10.MAY.2016 10:41:31

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:43:33

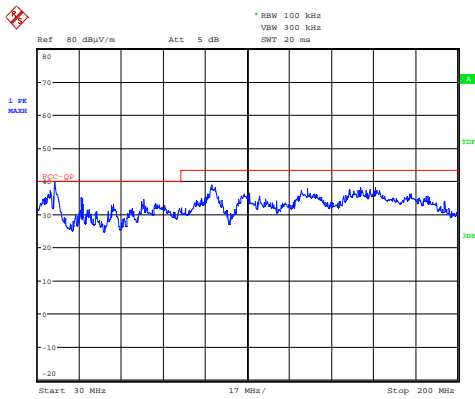
26.5 GHz – 40 GHz



Date: 24.APR.2016 13:13:30

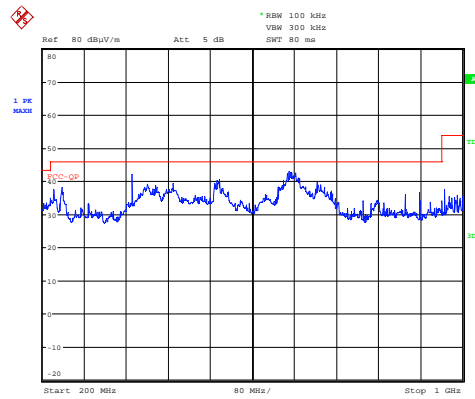
Bandedge

Modulation: 802.11ac VHT40 – 5510 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5335.6	52.8	9.4	34.3	34.5	-9.5	52.6	426.6	2582.3
PK	5970.2	56.6	10.0	34.4	34.5	-9.5	57.0	707.9	2582.3
PK	6123.1	54.5	10.1	34.8	34.5	-9.5	55.4	588.8	2582.3
PK	5335.6	52.8	9.4	34.3	34.5	-9.5	52.6	426.6	2582.3
PK	7346.8	52.1	11.4	37.0	34.8	-9.5	56.2	645.7	5000.0
AV	7346.8	47.7	11.4	37.0	34.8	-9.5	51.8	389.0	500.0



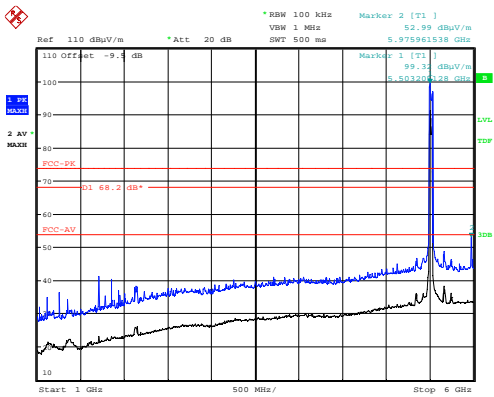
Date: 11.MAY.2016 11:24:02

30 MHz – 200 MHz



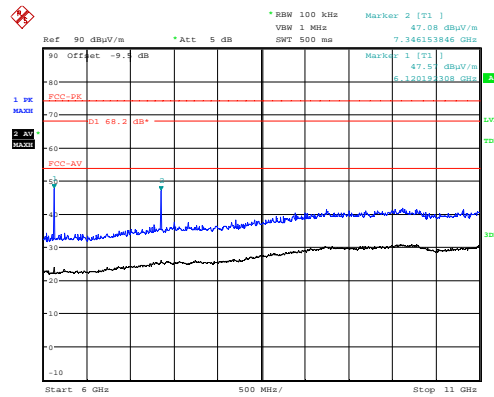
Date: 10.MAY.2016 16:31:23

200 MHz – 1 GHz



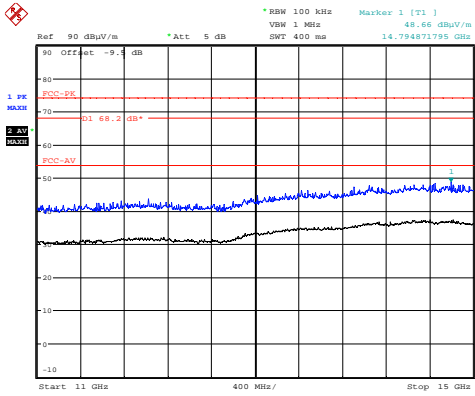
Date: 6.MAY.2016 12:19:46

1 GHz – 6 GHz



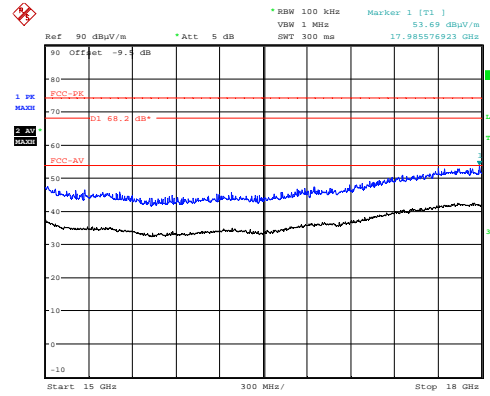
Date: 6.MAY.2016 12:21:58

6 GHz – 11 GHz



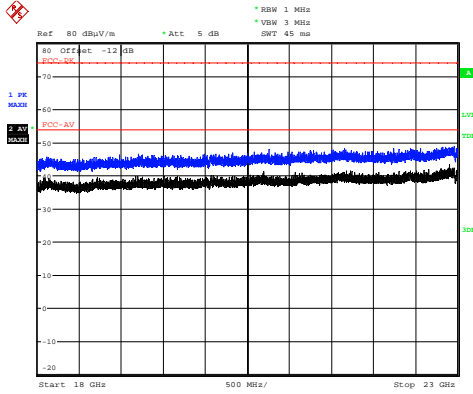
Date: 6.MAY.2016 12:23:05

11 GHz – 15 GHz



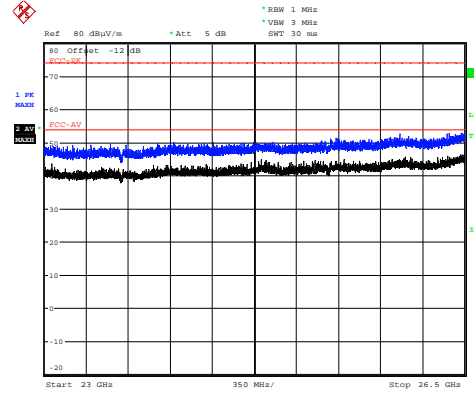
Date: 6.MAY.2016 12:25:05

15 GHz – 18 GHz



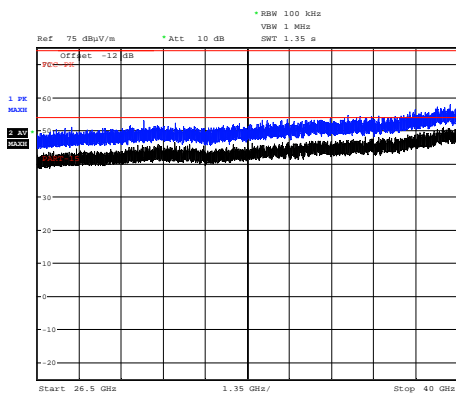
Date: 10.MAY.2016 11:00:49

18 GHz – 23 GHz



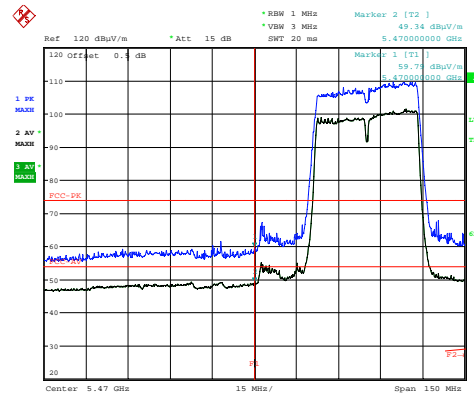
Date: 10.MAY.2016 10:43:39

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:45:03

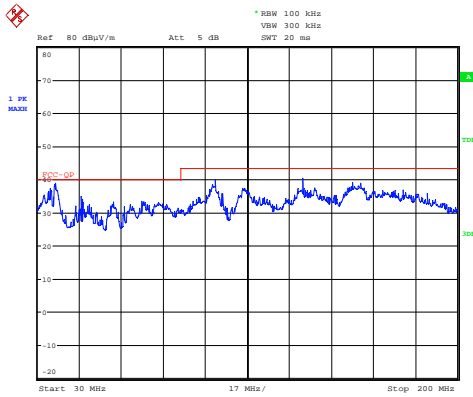
26.5 GHz – 40 GHz



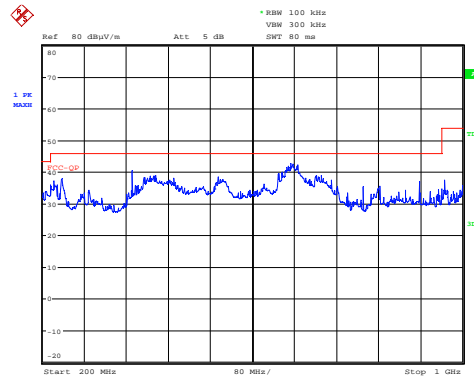
Date: 24.APR.2016 14:12:31

Bandedge

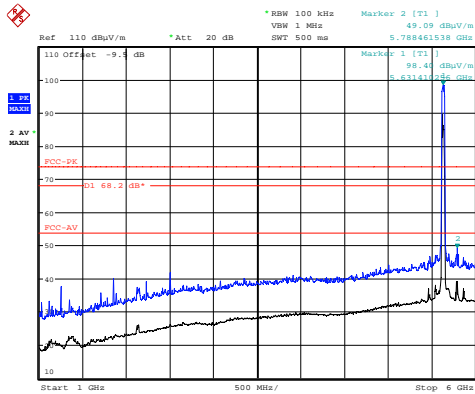
Modulation: 802.11ac VHT40 – 5630 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5877.9	55.2	9.6	34.1	34.5	-9.5	54.9	555.9	2582.3
PK	6100.0	56.5	10.2	34.8	34.5	-9.5	57.4	741.3	2582.3
PK	6255.8	55.4	10.3	34.8	34.6	-9.5	56.5	668.3	2582.3
PK	7506.9	50.2	11.7	37.0	34.9	-9.5	54.6	537.0	5000.0
AV	7506.9	44.3	11.7	37.0	34.9	-9.5	48.6	269.2	500.0



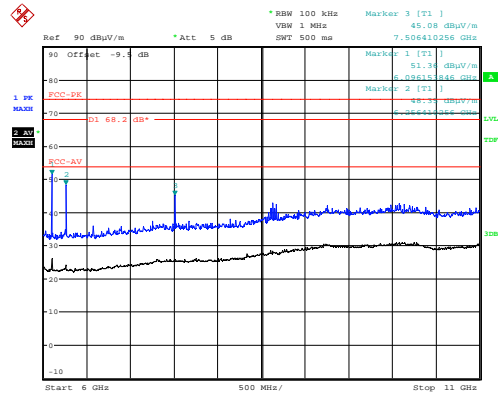
30 MHz – 200 MHz



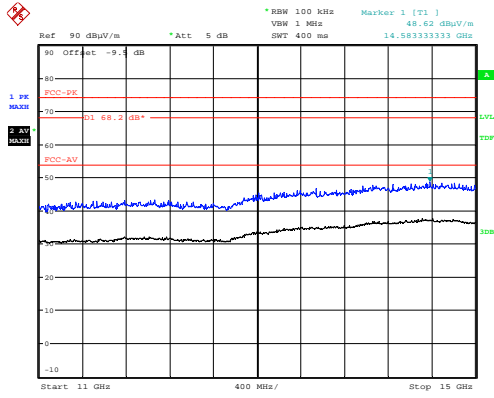
200 MHz – 1 GHz



1 GHz – 6 GHz

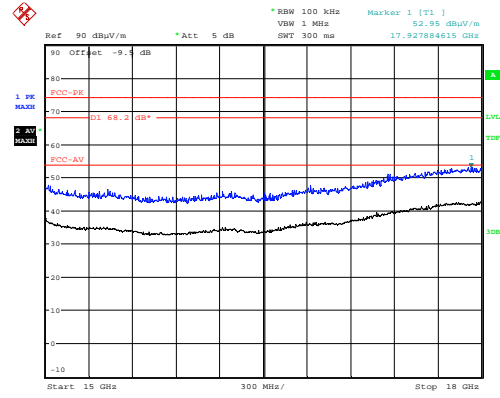


6 GHz – 11 GHz



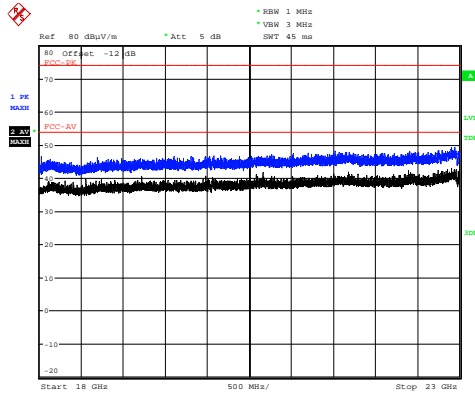
Date: 6.MAY.2016 12:29:51

11 GHz – 15 GHz



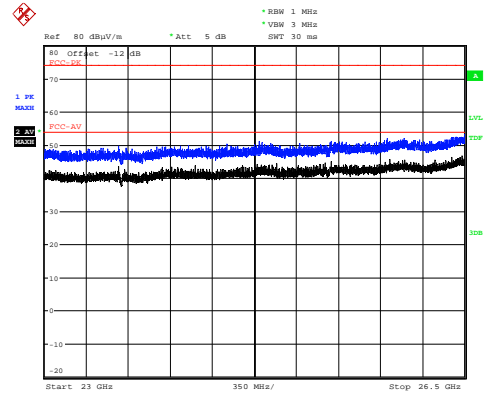
Date: 6.MAY.2016 12:27:17

15 GHz – 18 GHz



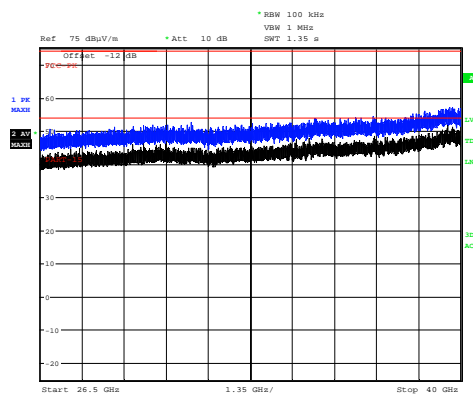
Date: 10.MAY.2016 10:59:04

18 GHz – 23 GHz



Date: 10.MAY.2016 10:45:15

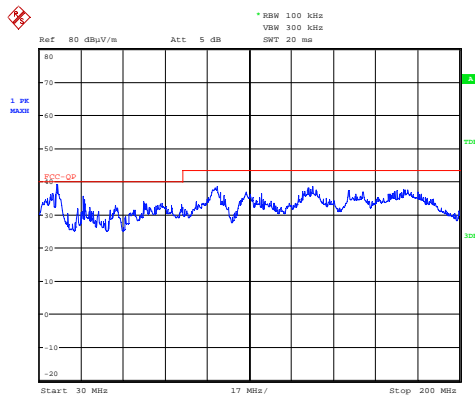
23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:46:19

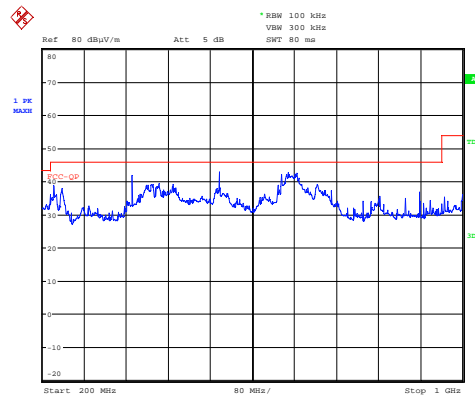
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT40 – 5710 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5877.9	58.1	9.6	34.1	34.5	-9.5	57.8	776.2	2582.3
PK	6186.5	52.8	10.2	34.8	34.5	-9.5	53.7	484.2	2582.3
PK	6345.2	50.5	10.4	34.7	34.6	-9.5	51.5	375.8	2582.3
PK	7613.5	51.5	11.6	36.9	34.9	-9.5	55.6	602.6	5000.0
AV	7613.5	47.0	11.6	36.9	34.9	-9.5	51.1	358.9	500.0



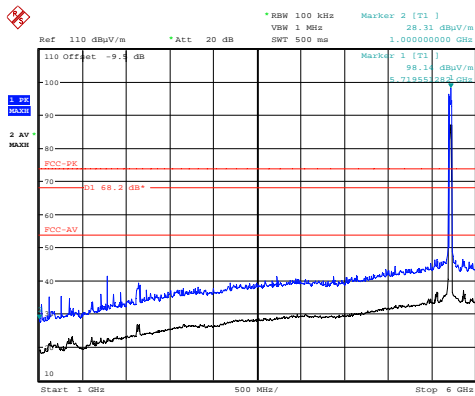
Date: 11.MAY.2016 11:27:47

30 MHz – 200 MHz



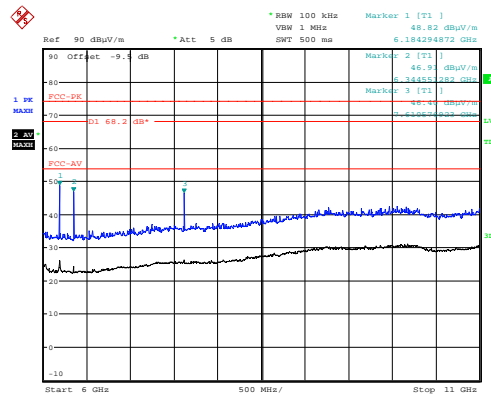
Date: 10.MAY.2016 16:38:22

200 MHz – 1 GHz



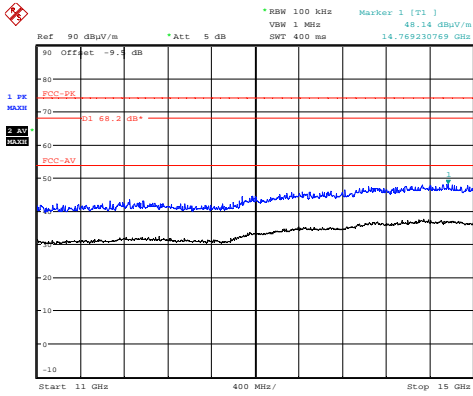
Date: 6.MAY.2016 12:38:22

1 GHz – 6 GHz



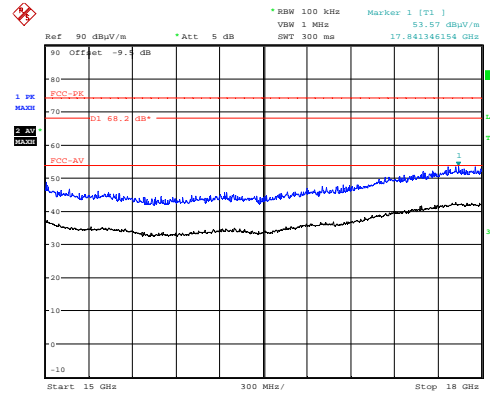
Date: 6.MAY.2016 12:41:08

6 GHz – 11 GHz



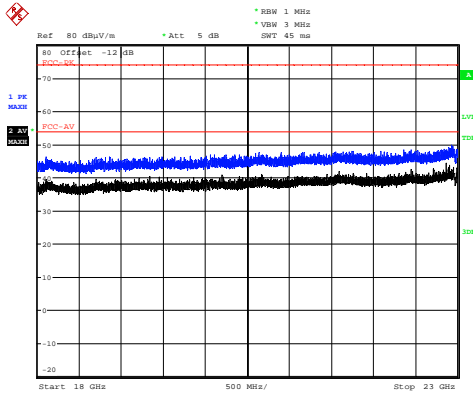
Date: 6.MAY.2016 12:42:19

11 GHz – 15 GHz



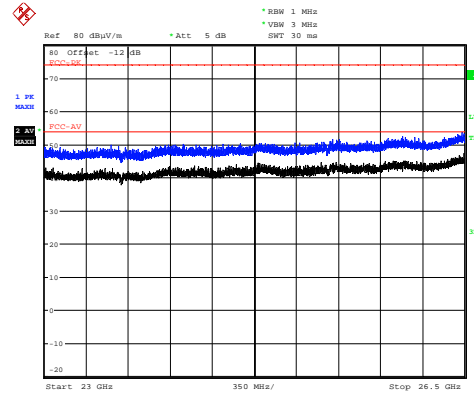
Date: 6.MAY.2016 12:45:36

15 GHz – 18 GHz



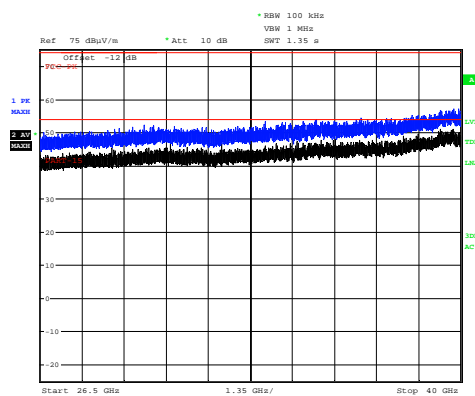
Date: 10.MAY.2016 10:57:41

18 GHz – 23 GHz



Date: 10.MAY.2016 10:50:23

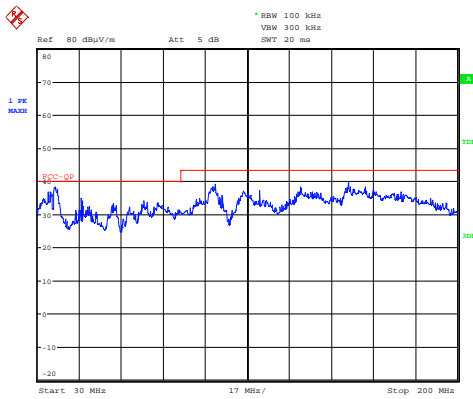
23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:54:29

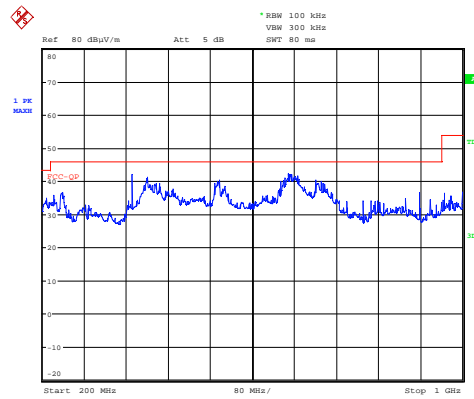
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT40 – 5755 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	6235.6	55.6	10.4	34.8	34.6	-9.5	56.7	683.9	2582.3
PK	6397.1	47.7	10.4	34.7	34.6	-9.5	48.7	272.3	2582.3
PK	7673.6	52.1	11.9	36.8	34.9	-9.5	56.4	660.7	5000.0
AV	7673.6	48.6	11.9	36.8	34.9	-9.5	52.9	441.6	500.0
PK	11519.9	54.7	14.4	38.8	34.8	-9.5	63.6	1513.6	5000.0
AV	11519.9	42.8	14.4	38.8	34.8	-9.5	51.7	384.6	500.0



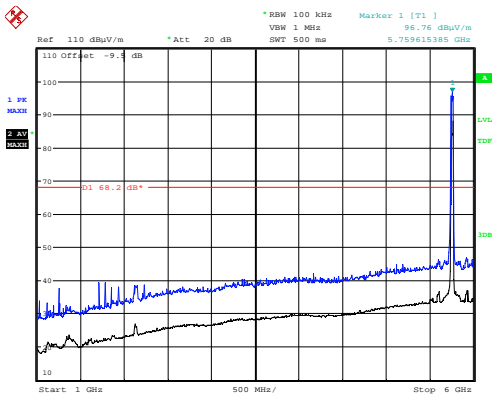
Date: 11.MAY.2016 11:29:36

30 MHz – 200 MHz



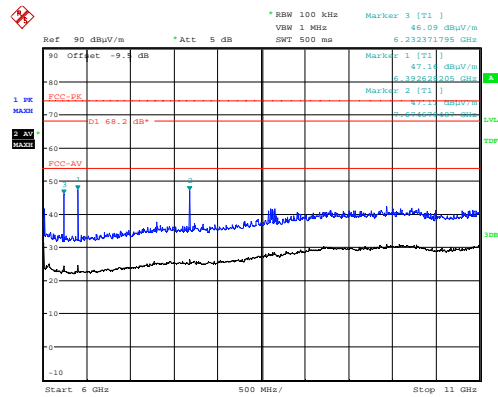
Date: 10.MAY.2016 16:41:39

200 MHz – 1 GHz



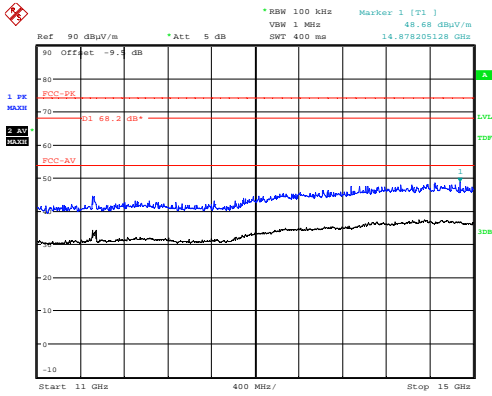
Date: 8.MAY.2016 18:34:13

1 GHz – 6 GHz



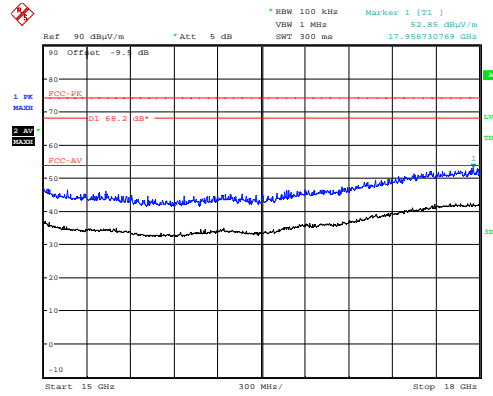
Date: 6.MAY.2016 15:13:45

6 GHz – 11 GHz



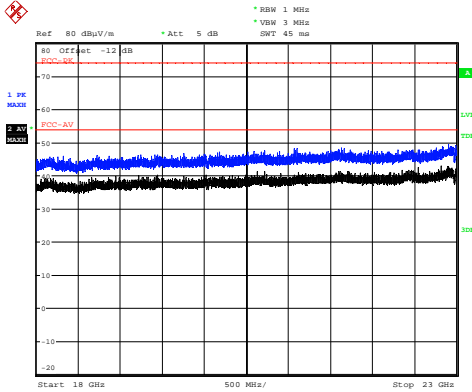
Date: 6.MAY.2016 15:15:16

11 GHz – 15 GHz



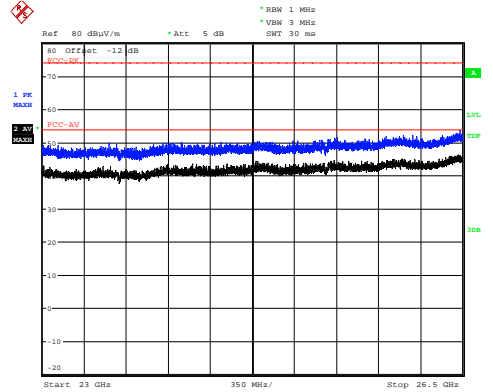
Date: 6.MAY.2016 15:17:08

15 GHz – 18 GHz



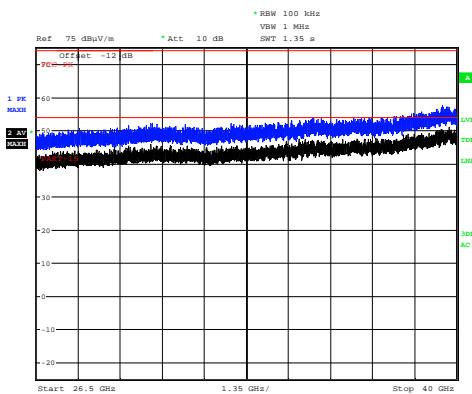
Date: 10.MAY.2016 10:55:45

18 GHz – 23 GHz



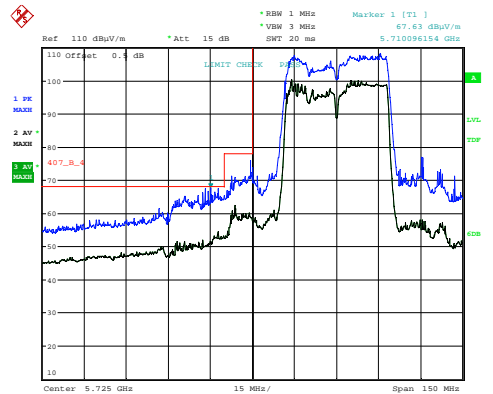
Date: 10.MAY.2016 10:49:45

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:56:16

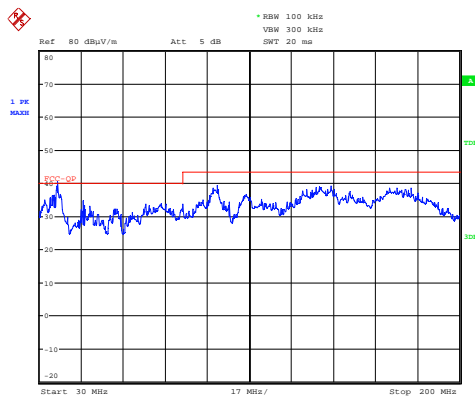
26.5 GHz – 40 GHz



Date: 24.APR.2016 16:18:26

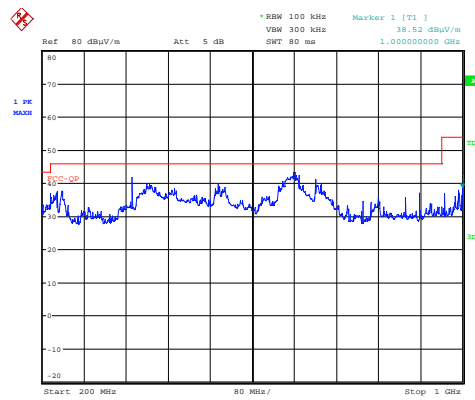
Bandedge

Modulation: 802.11ac VHT40 – 5795 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	6278.8	53.5	10.3	34.7	34.6	-9.5	54.5	530.9	2582.3
PK	6440.4	50.9	10.4	34.7	34.6	-9.5	51.9	393.6	2582.3
PK	7726.8	53.1	12.0	36.8	34.9	-9.5	57.5	749.9	5000.0
AV	7726.8	49.3	12.0	36.8	34.9	-9.5	53.7	484.2	500.0
PK	11581.1	56.7	14.3	39.0	34.8	-9.5	65.7	1927.5	5000.0
AV	11581.1	44.3	14.3	39.0	34.8	-9.5	53.3	462.4	500.0



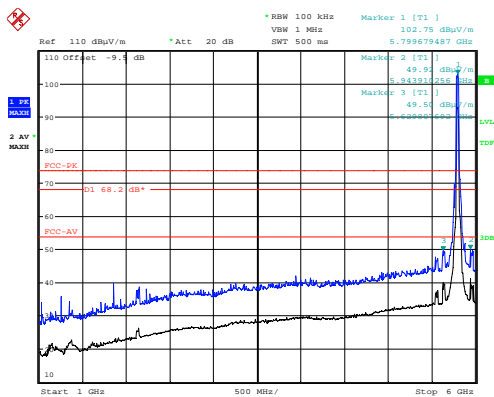
Date: 11.MAY.2016 11:31:35

30 MHz – 200 MHz



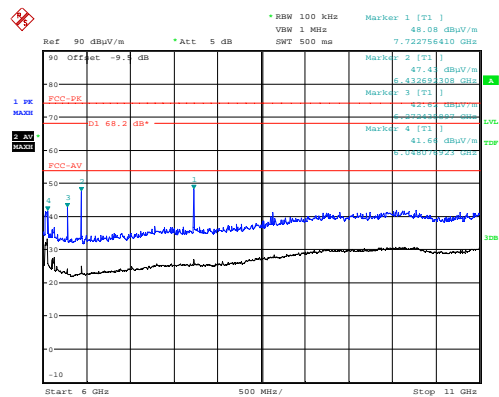
Date: 10.MAY.2016 16:45:13

200 MHz – 1 GHz



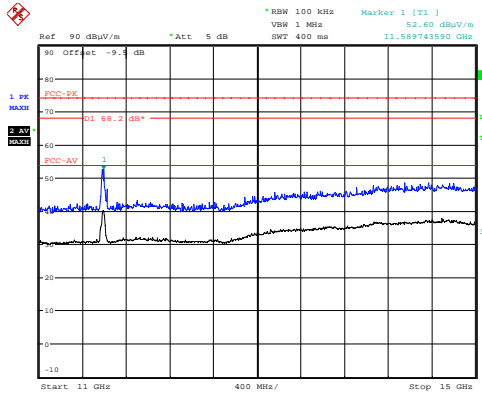
Date: 6.MAY.2016 15:24:46

1 GHz – 6 GHz



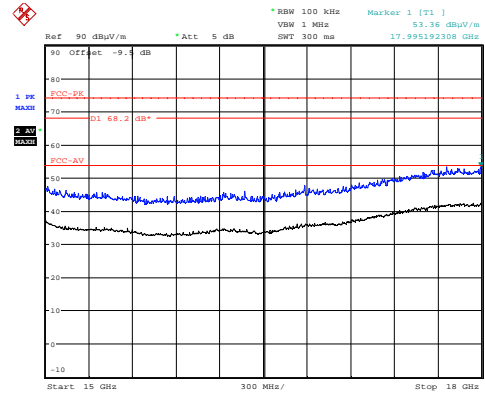
Date: 6.MAY.2016 15:22:55

6 GHz – 11 GHz



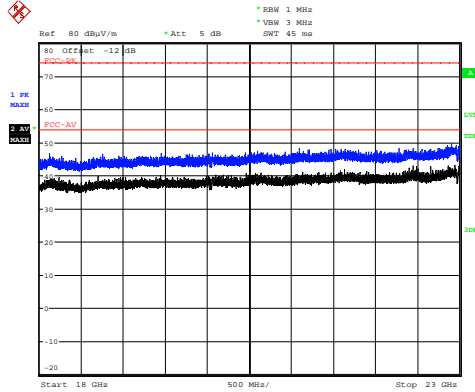
Date: 6.MAY.2016 15:21:20

11 GHz – 15 GHz



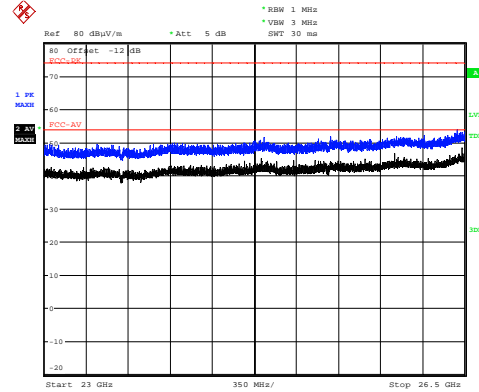
Date: 6.MAY.2016 15:19:13

15 GHz – 18 GHz



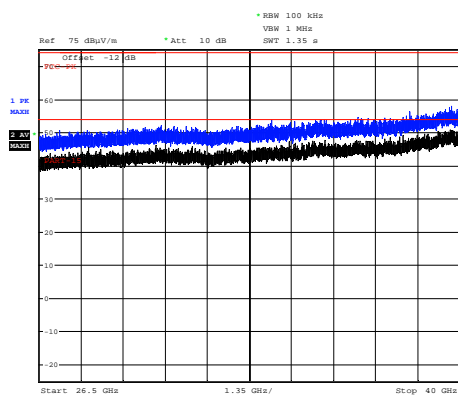
Date: 10.MAY.2016 10:54:14

18 GHz – 23 GHz



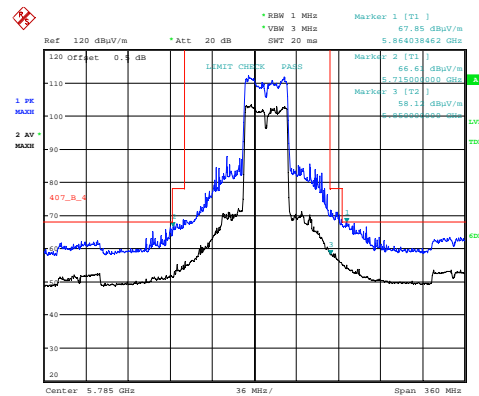
Date: 10.MAY.2016 10:52:33

23 GHz – 26.5 GHz



Date: 27.MAY.2003 00:57:57

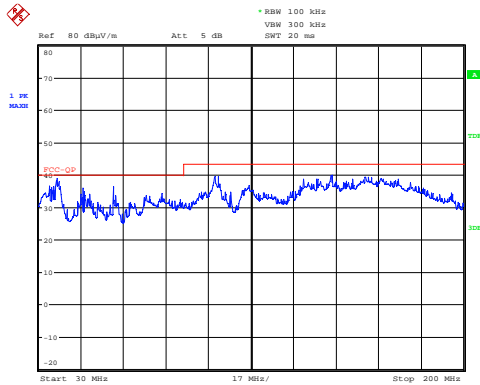
26.5 GHz – 40 GHz



Date: 24.APR.2016 15:47:44

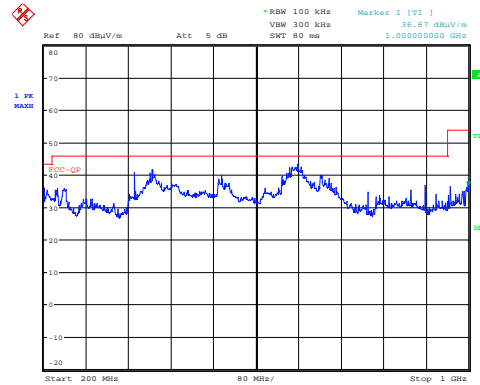
Bandedge

Modulation: 802.11ac VHT80 – 5210 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5462.5	53.5	9.5	34.4	34.5	-9.5	53.4	467.7	2582.3
PK	5788.5	55.6	9.9	34.1	34.5	-9.5	55.6	602.6	2582.3
PK	6948.1	52.4	10.9	35.8	34.7	-9.5	54.9	555.9	2582.3



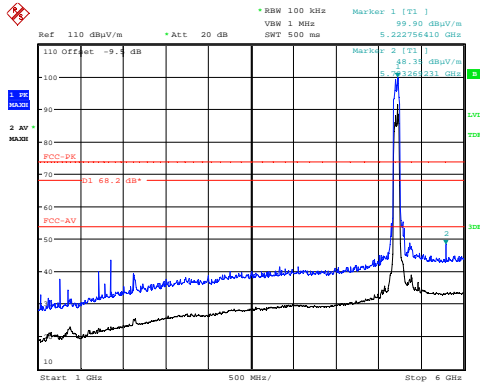
Date: 11.MAY.2016 11:34:53

30 MHz – 200 MHz



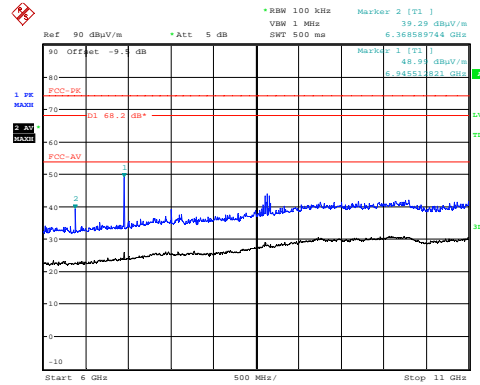
Date: 10.MAY.2016 16:50:12

200 MHz – 1 GHz



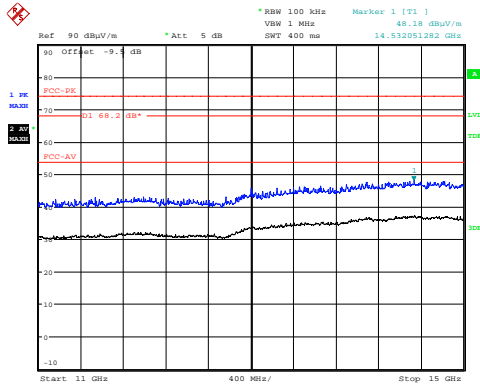
Date: 6.MAY.2016 13:41:48

1 GHz – 6 GHz



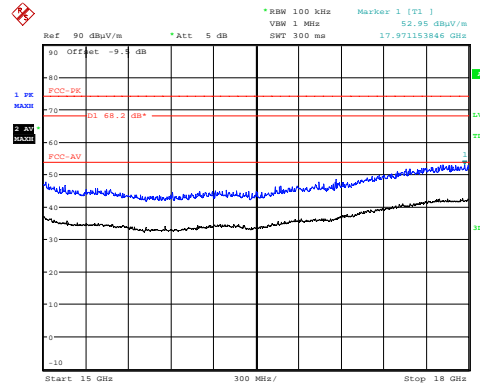
Date: 6.MAY.2016 13:44:10

6 GHz – 11 GHz



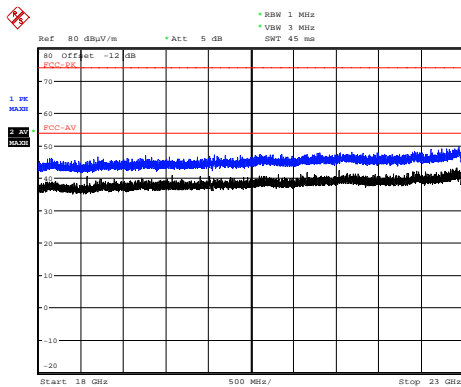
Date: 6.MAY.2016 13:45:15

11 GHz – 15 GHz



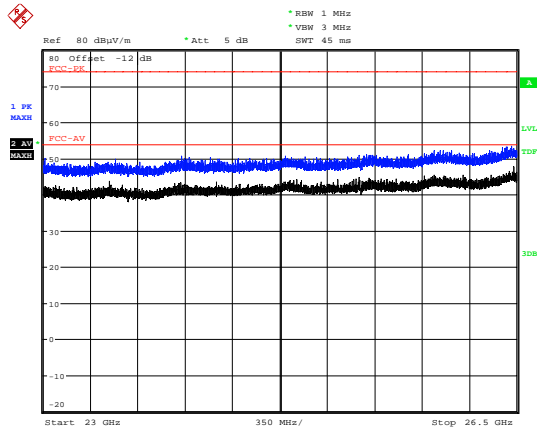
Date: 6.MAY.2016 13:49:01

15 GHz – 18 GHz



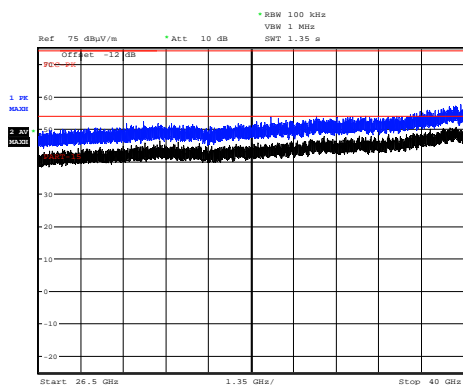
Date: 10.MAY.2016 11:08:45

18 GHz – 23 GHz



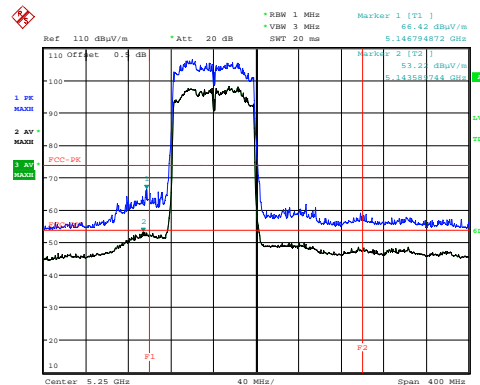
Date: 10.MAY.2016 11:52:22

23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:00:14

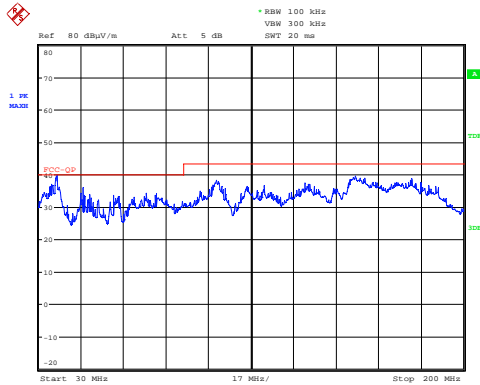
26.5 GHz – 40 GHz



Date: 24.APR.2016 12:40:07

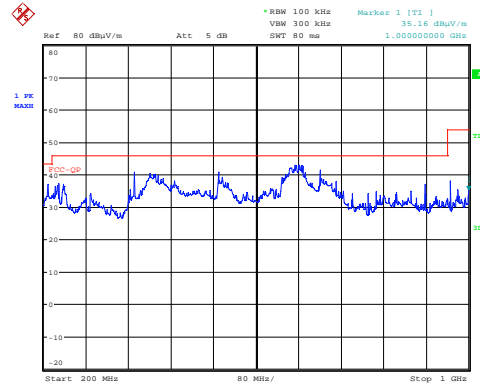
Bandedge

Modulation: 802.11ac VHT80 – 5290 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5485.6	54.8	9.5	34.4	34.5	-9.5	54.7	543.3	2582.3
PK	5877.9	52.1	9.6	34.1	34.5	-9.5	51.8	389.0	2582.3
PK	7054.8	50.8	11.1	36.1	34.7	-9.5	53.7	484.2	2582.3



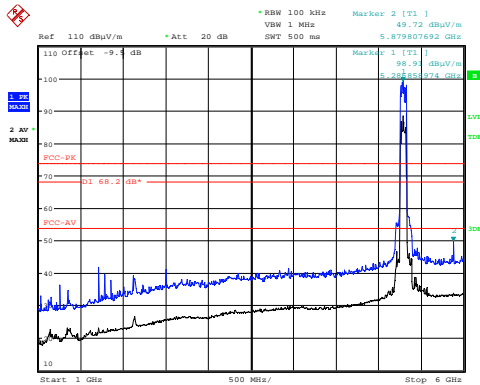
Date: 11.MAY.2016 11:37:31

30 MHz – 200 MHz



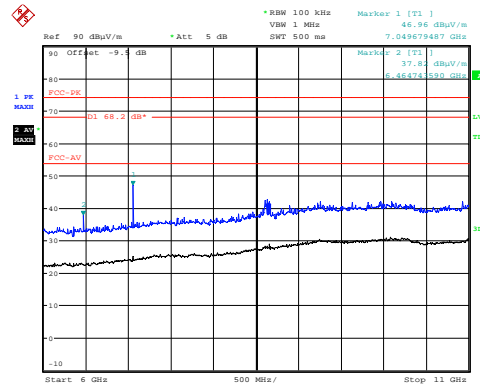
Date: 10.MAY.2016 16:54:30

200 MHz – 1 GHz



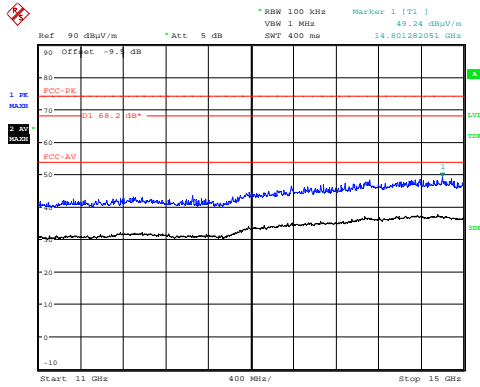
Date: 6.MAY.2016 13:56:40

1 GHz – 6 GHz



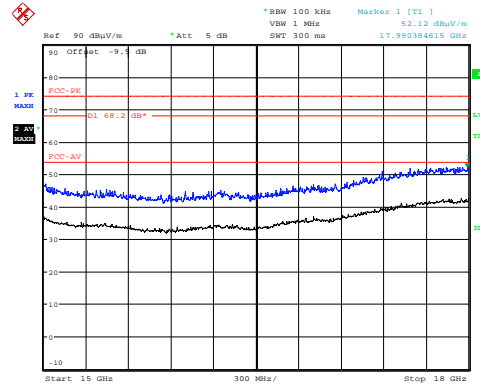
Date: 6.MAY.2016 13:53:59

6 GHz – 11 GHz



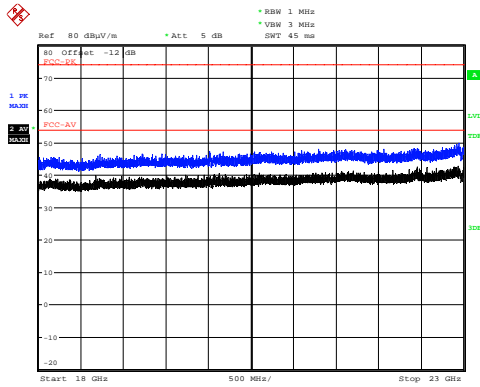
Date: 6.MAY.2016 13:52:28

11 GHz – 15 GHz



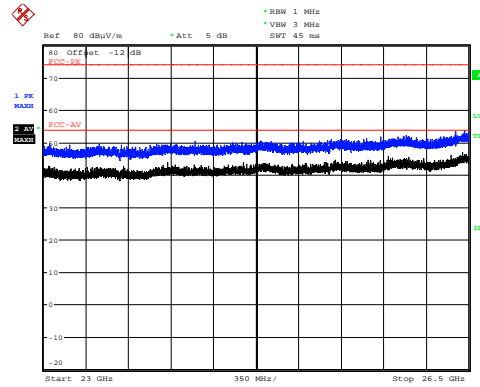
Date: 6.MAY.2016 13:50:20

15 GHz – 18 GHz



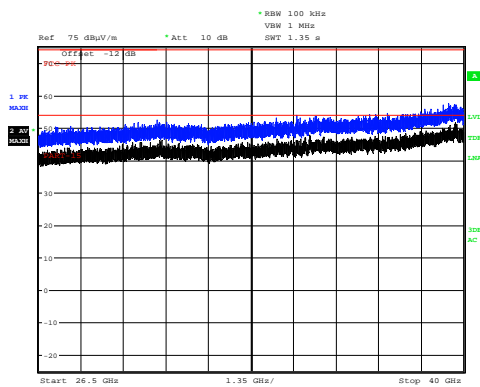
Date: 10.MAY.2016 11:10:20

18 GHz – 23 GHz



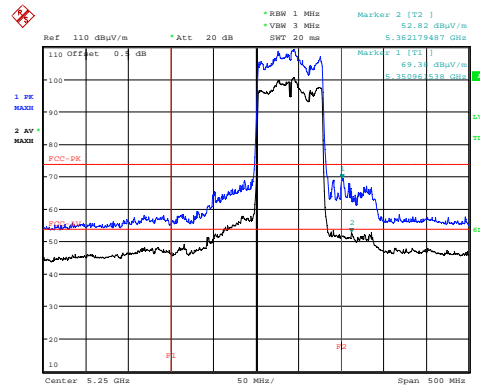
Date: 10.MAY.2016 11:49:42

23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:01:29

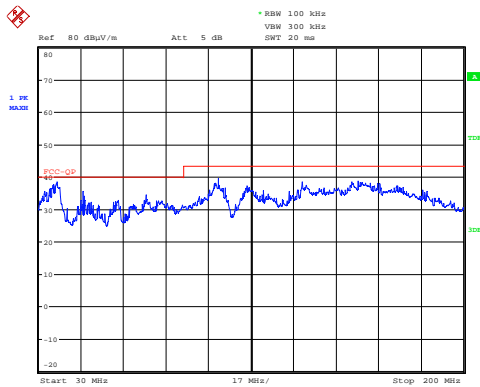
26.5 GHz – 40 GHz



Date: 24.APR.2016 12:59:08

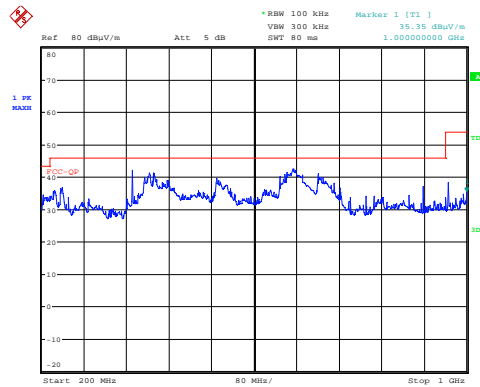
Bandedge

Modulation: 802.11ac VHT80 – 5530 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	6146.2	53.7	9.8	34.8	34.5	-9.5	54.3	518.8	2582.3
PK	7373.3	51.6	11.5	37.1	34.8	-9.5	55.8	616.6	5000.0
AV	7373.3	47.1	11.5	37.1	34.8	-9.5	51.4	371.5	500.0



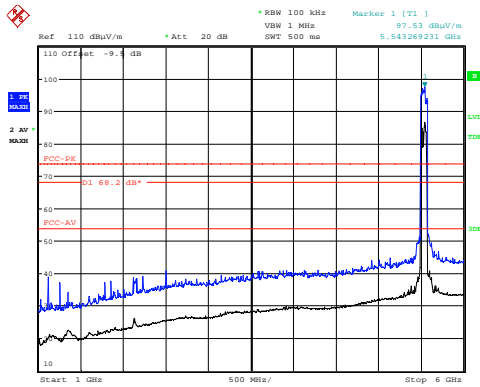
Date: 11.MAY.2016 11:39:11

30 MHz – 200 MHz



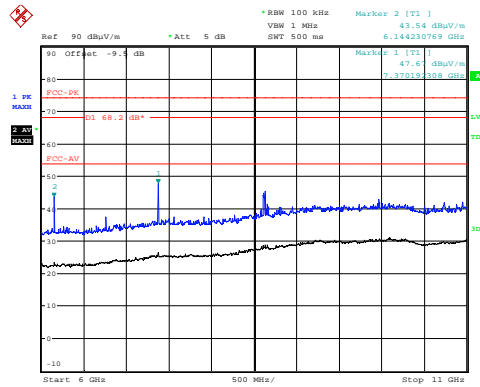
Date: 10.MAY.2016 17:16:11

200 MHz – 1 GHz



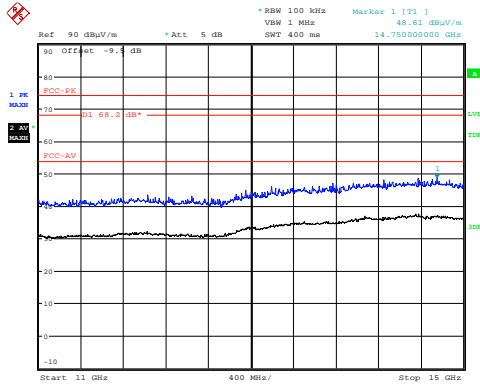
Date: 6.MAY.2016 13:58:57

1 GHz – 6 GHz



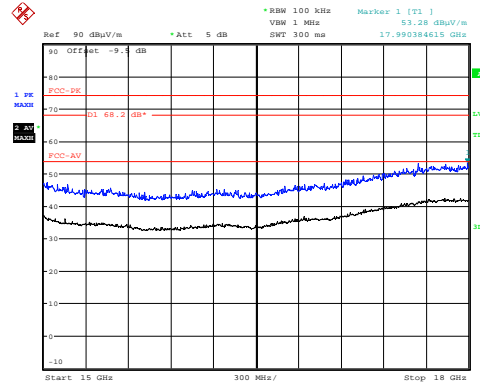
Date: 6.MAY.2016 14:01:27

6 GHz – 11 GHz



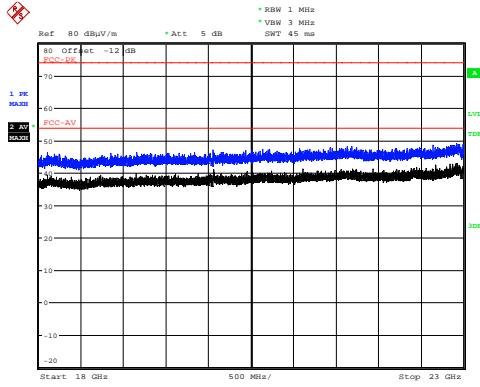
Date: 6.MAY.2016 14:02:42

11 GHz – 15 GHz



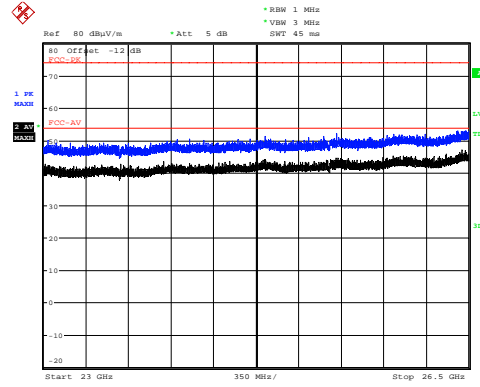
Date: 6.MAY.2016 14:05:27

15 GHz – 18 GHz



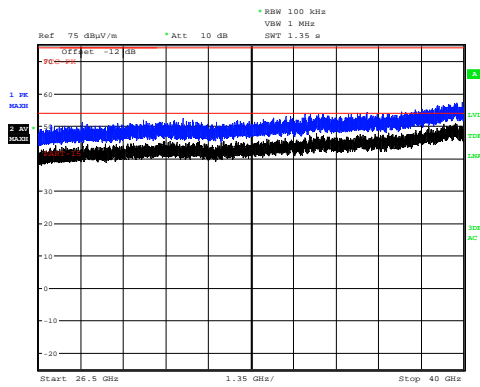
Date: 10.MAY.2016 11:11:49

18 GHz – 23 GHz



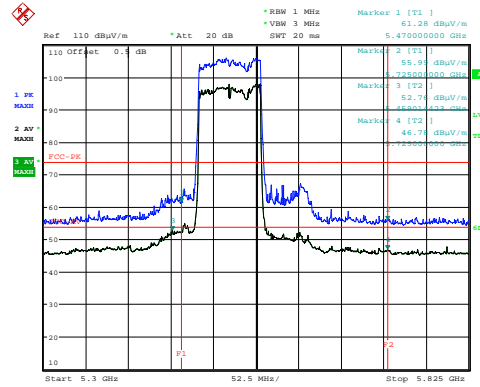
Date: 10.MAY.2016 11:47:11

23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:02:38

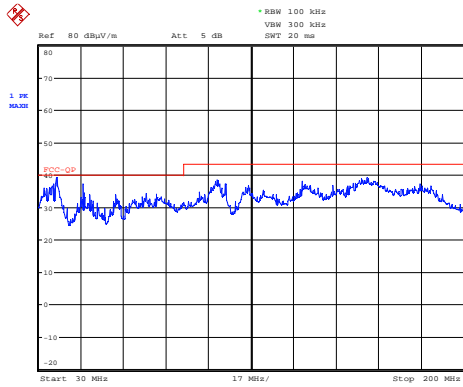
26.5 GHz – 40 GHz



Date: 24.APR.2016 14:41:24

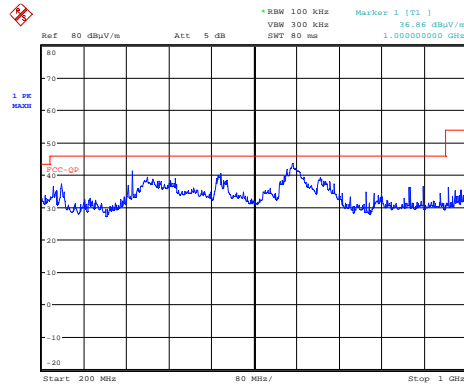
Bandedge

Modulation: 802.11ac VHT80 – 5610 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5863.5	53.7	9.6	34.1	34.5	-9.5	53.4	467.7	2582.3
PK	6235.6	51.1	10.4	34.8	34.6	-9.5	52.3	412.1	2582.3
PK	7480.0	50.0	11.4	37.0	34.9	-9.5	54.1	507.0	5000.0
AV	7480.0	44.1	11.4	37.0	34.9	-9.5	48.2	257.0	500.0



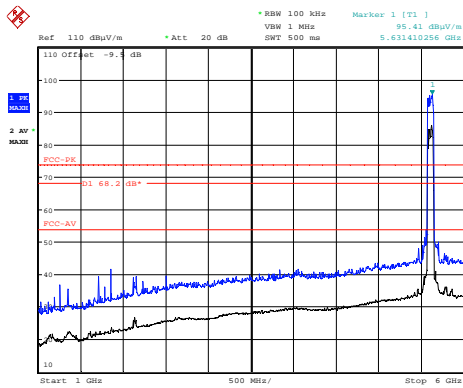
Date: 11.MAY.2016 11:41:02

30 MHz – 200 MHz



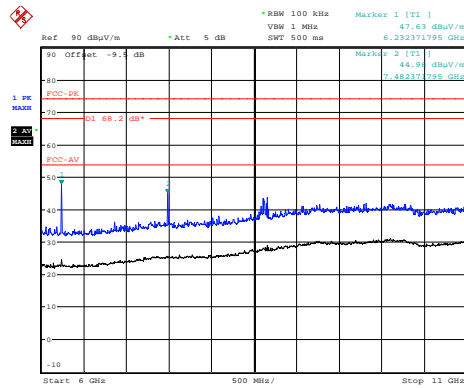
Date: 10.MAY.2016 17:13:17

200 MHz – 1 GHz



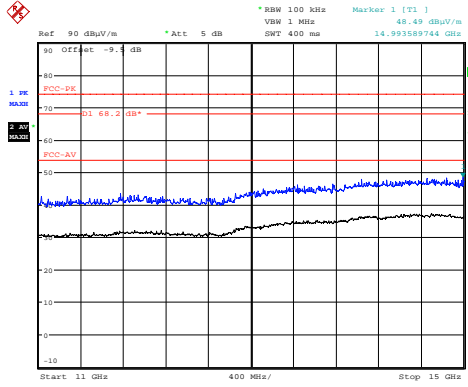
Date: 6.MAY.2016 14:09:07

1 GHz – 6 GHz



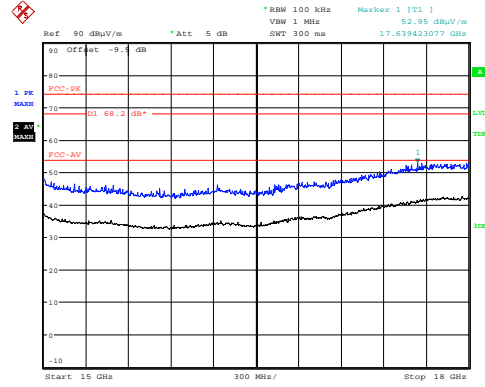
Date: 6.MAY.2016 14:11:17

6 GHz – 11 GHz



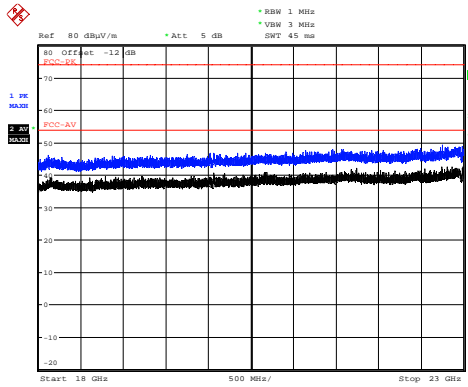
Date: 6.MAY.2016 14:12:25

11 GHz – 15 GHz



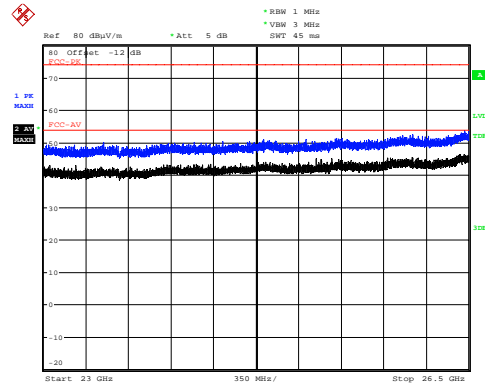
Date: 6.MAY.2016 14:07:33

15 GHz – 18 GHz



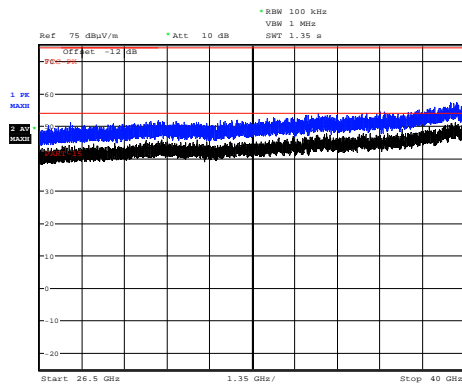
Date: 10.MAY.2016 11:13:47

18 GHz – 23 GHz



Date: 10.MAY.2016 11:43:59

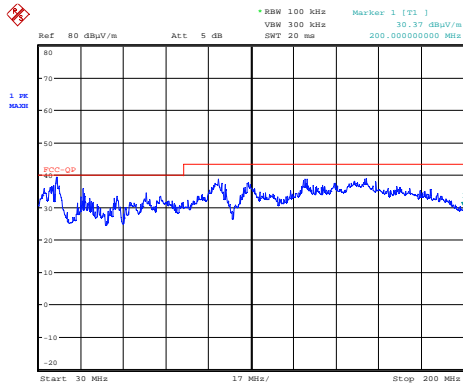
23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:03:48

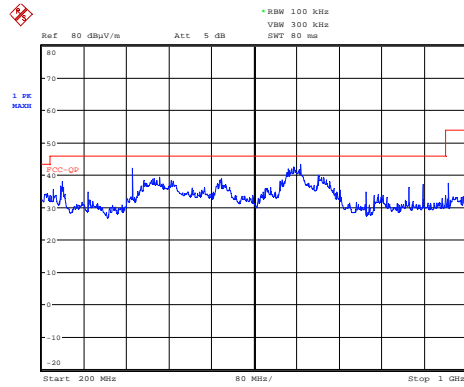
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT80 – 5690 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	5875.0	55.4	9.6	34.1	34.5	-9.5	55.1	568.9	2582.3
PK	6322.1	47.3	10.3	34.7	34.6	-9.5	48.3	260.0	2582.3
PK	7586.7	50.5	11.8	36.9	34.9	-9.5	54.8	549.5	5000.0
AV	7586.7	45.3	11.8	36.9	34.9	-9.5	49.7	305.5	500.0



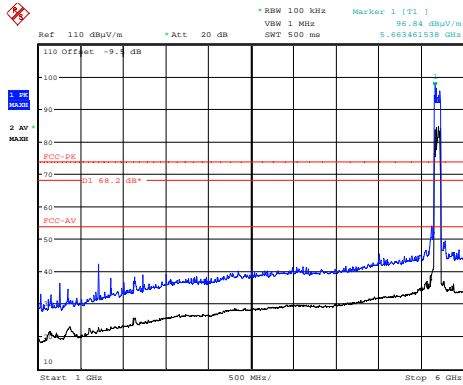
Date: 11.MAY.2016 11:42:37

30 MHz – 200 MHz



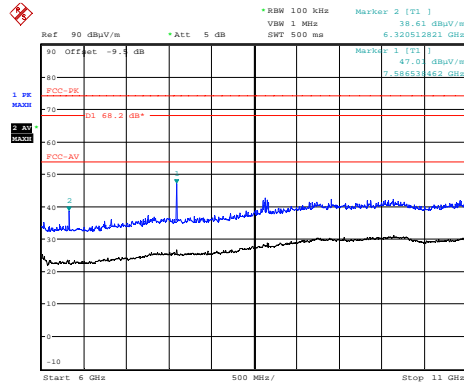
Date: 10.MAY.2016 17:18:53

200 MHz – 1 GHz



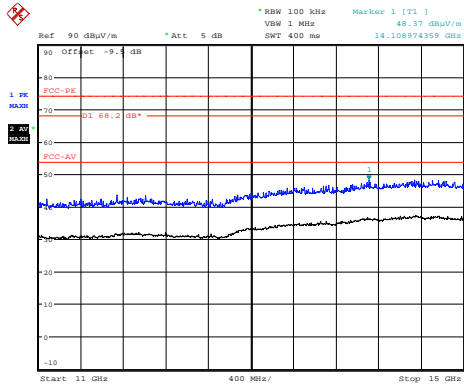
Date: 6.MAY.2016 14:49:37

1 GHz – 6 GHz



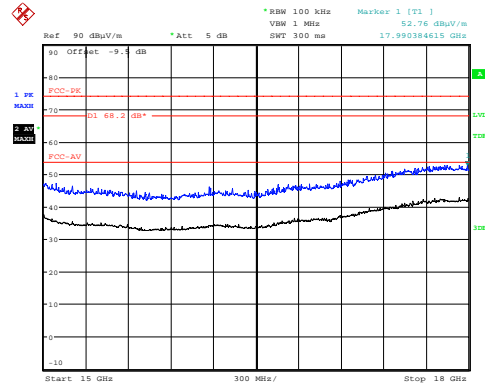
Date: 6.MAY.2016 14:53:19

6 GHz – 11 GHz



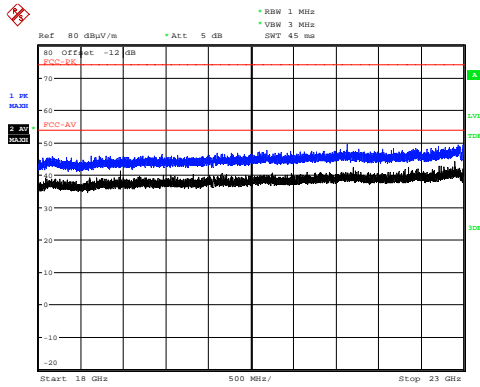
Date: 6.MAY.2016 14:51:01

11 GHz – 15 GHz



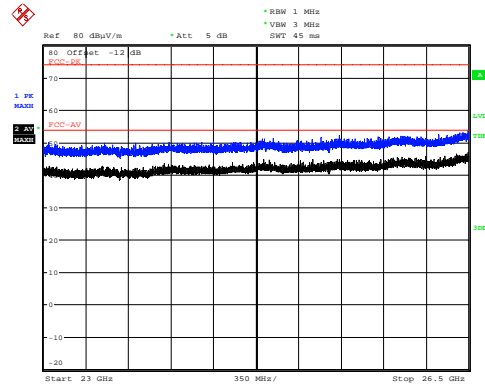
Date: 6.MAY.2016 14:56:29

15 GHz – 18 GHz



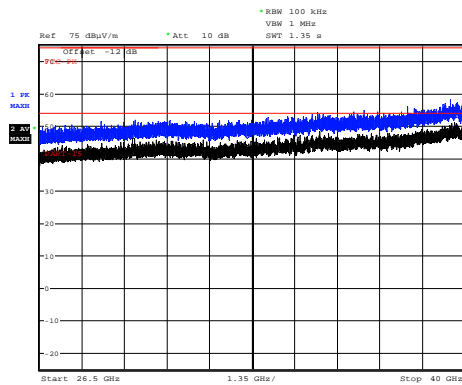
Date: 10.MAY.2016 11:15:29

18 GHz – 23 GHz



Date: 10.MAY.2016 11:38:17

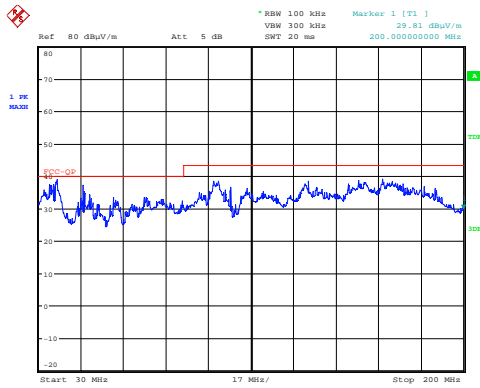
23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:05:05

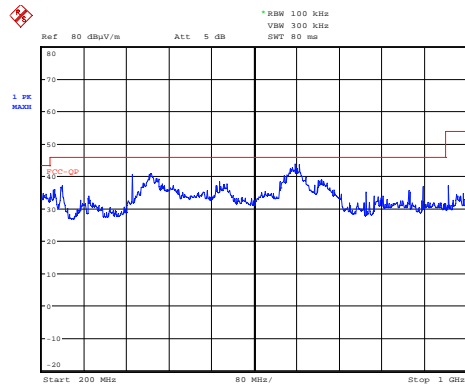
26.5 GHz – 40 GHz

Modulation: 802.11ac VHT80 – 5775 MHz									
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
PK	7700.7	53.6	11.9	36.8	34.9	-9.5	57.9	785.2	5000.0
AV	7700.7	49.3	11.9	36.8	34.9	-9.5	53.6	478.6	500.0
PK	11566.4	51.2	14.3	39.0	34.8	-9.5	60.2	1023.3	5000.0
AV	11566.4	36.6	14.3	39.0	34.8	-9.5	45.6	190.5	500.0



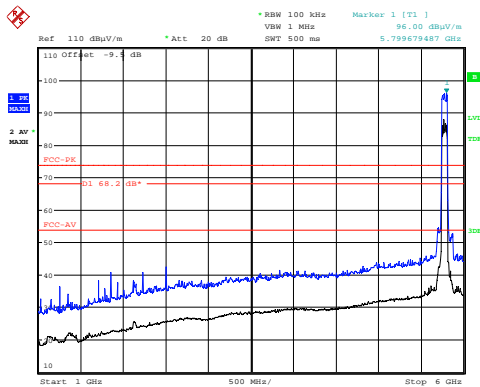
Date: 11.MAY.2016 11:44:49

30 MHz – 200 MHz



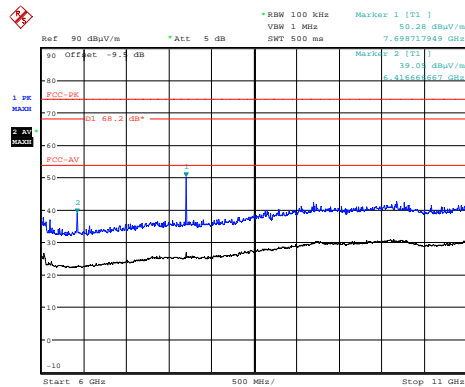
Date: 10.MAY.2016 17:22:17

200 MHz – 1 GHz



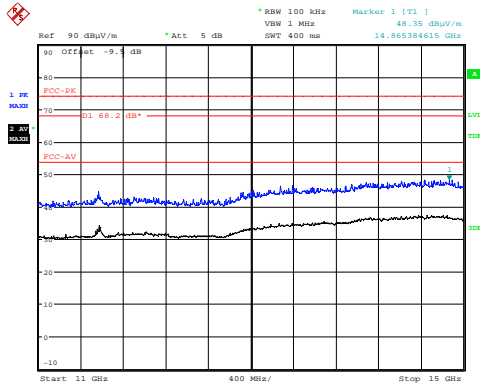
Date: 6.MAY.2016 15:01:46

1 GHz – 6 GHz



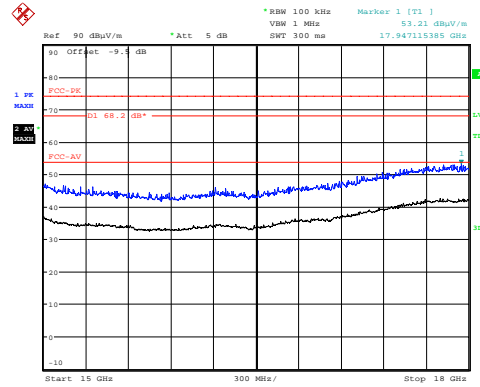
Date: 6.MAY.2016 15:05:51

6 GHz – 11 GHz



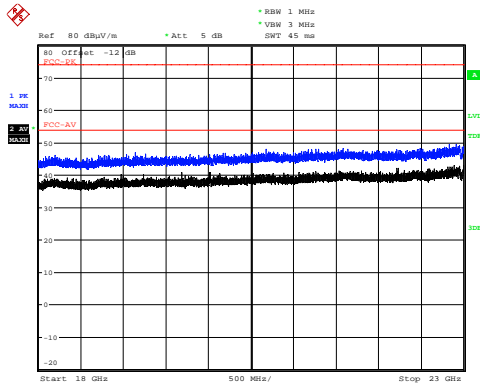
Date: 6.MAY.2016 15:04:14

11 GHz – 15 GHz



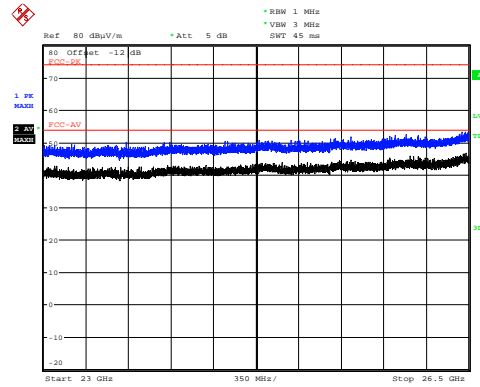
Date: 6.MAY.2016 14:59:44

15 GHz – 18 GHz



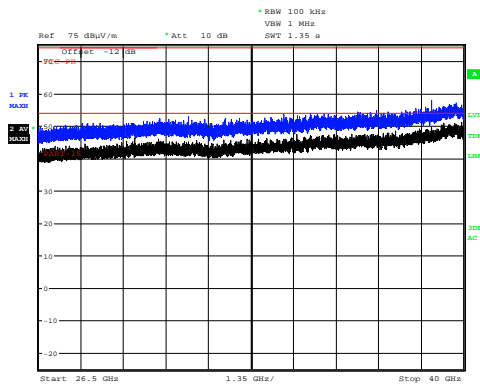
Date: 10.MAY.2016 11:30:07

18 GHz – 23 GHz



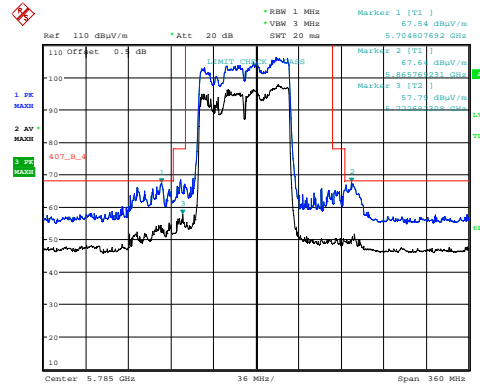
Date: 10.MAY.2016 11:32:52

23 GHz – 26.5 GHz



Date: 27.MAY.2003 01:07:19

26.5 GHz – 40 GHz



Date: 24.APR.2016 15:09:18

Bandedge

15 Measurement Uncertainty

Calculated Measurement Uncertainties

All statements of uncertainty are expanded standard uncertainty using a coverage factor of 1.96 to give a 95% confidence:

[1] Radiated spurious emissions

Uncertainty in test result (30MHz – 1GHz) = **4.6dB**,

Uncertainty in test result (1GHz – 18GHz) = **4.7dB**

[2] AC power line conducted emissions

Uncertainty in test result = **3.4dB**

[3] Occupied bandwidth

Uncertainty in test result = **15.5%**

[4] Conducted carrier power

Uncertainty in test result (Power Meter) = **1.08dB**

[5] Conducted / radiated RF power out-of-band

Uncertainty in test result – Up to 8.1GHz = **3.31dB**

Uncertainty in test result – 8.1GHz – 15.3GHz = **4.43dB**

Uncertainty in test result (30MHz – 1GHz) = **4.6dB**,

Uncertainty in test result (1GHz – 18GHz) = **4.7dB**

[6] Power spectral density

Uncertainty in test result (Spectrum Analyser) = **2.48dB**

16 RF Exposure

KDB 447498

Prediction of MPE limit at a given distance

Equation from IEEE C95.1

$$S = \frac{EIRP}{4 \pi R^2} \quad \text{re - arranged} \quad R = \sqrt{\frac{EIRP}{S 4 \pi}}$$

Where:

S = power density

R = distance to the centre of radiation of the antenna

EIRP = EUT Maximum power

Note:

The EIRP was calculated by addition of the maximum conducted carrier power plus the maximum directional antenna gain (determined as per KDB 662911)

Results:

Modulation: 802.11a						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5180	17.7	9.4	512.9	20.0	0.102	1
5260	17.3	9.5	478.6	20.0	0.095	1
5320	17.2	9.8	501.2	20.0	0.100	1
5500	17.3	9.9	524.8	20.0	0.104	1
5620	17.2	10.2	549.5	20.0	0.109	1
5720	17.2	10.0	524.8	20.0	0.104	1
5745	23.6	10.0	2290.9	20.0	0.456	1
5785	23.9	9.8	2344.2	20.0	0.466	1
5825	22.6	9.8	1737.8	20.0	0.346	1

Modulation: 802.11n HT20						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5180	19.0	9.4	691.8	20.0	0.138	1
5260	18.9	9.5	691.8	20.0	0.138	1
5320	18.8	9.8	724.4	20.0	0.144	1
5500	18.3	9.9	660.7	20.0	0.131	1
5620	18.2	10.2	691.8	20.0	0.138	1
5720	18.3	10.0	676.1	20.0	0.135	1
5745	23.2	10.0	2089.3	20.0	0.416	1
5785	24.0	9.8	2398.8	20.0	0.477	1
5825	22.8	9.8	1819.7	20.0	0.362	1

Modulation: 802.11n HT40						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5190	20.1	9.6	933.3	20.0	0.186	1
5270	20.0	9.5	891.3	20.0	0.177	1
5310	20.0	9.8	955.0	20.0	0.190	1
5510	19.6	10.2	955.0	20.0	0.190	1
5630	19.6	10.2	955.0	20.0	0.190	1
5710	19.5	10.2	933.3	20.0	0.186	1
5755	21.6	10.0	1445.4	20.0	0.288	1
5795	23.9	9.8	2344.2	20.0	0.466	1

Modulation: 802.11ac VHT20						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5180	18.9	9.4	676.1	20.0	0.135	1
5260	19.1	9.5	724.4	20.0	0.144	1
5320	19.1	9.8	776.2	20.0	0.154	1
5500	17.4	9.9	537.0	20.0	0.107	1
5620	17.5	10.2	588.8	20.0	0.117	1
5720	17.6	10.0	575.4	20.0	0.114	1
5745	23.7	10.0	2344.2	20.0	0.466	1
5785	23.6	9.8	2187.8	20.0	0.435	1
5825	22.7	9.8	1778.3	20.0	0.354	1

Modulation: 802.11ac VHT40						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5190	20.2	9.6	955.0	20.0	0.190	1
5270	20.0	9.5	891.3	20.0	0.177	1
5310	20.0	9.8	955.0	20.0	0.190	1
5510	18.9	10.2	812.8	20.0	0.162	1
5630	18.9	10.2	812.8	20.0	0.162	1
5710	18.9	10.2	812.8	20.0	0.162	1
5755	21.8	10.0	1513.6	20.0	0.301	1
5795	24.2	9.8	2511.9	20.0	0.500	1
5190	20.2	9.6	955.0	20.0	0.190	1

Modulation: 802.11ac VHT80						
Prediction Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (mW)	Minimum Distance (cm)	Power density at distance (mW/cm ²)	Power density limit (S) (mW/cm ²)
5210	19.8	9.6	871.0	20.0	0.173	1
5290	19.8	9.8	912.0	20.0	0.181	1
5530	19.6	10.3	977.2	20.0	0.194	1
5610	19.6	10.2	955.0	20.0	0.190	1
5690	19.6	10.3	977.2	20.0	0.194	1
5775	20.5	10.0	1122.0	20.0	0.223	1